

ELECTRICAL ABBREVIATIONS:

+	DEVICE MOUNTED ABOVE STD HEIGHT	FA	FIRE ALARM
1PH	SINGLE-PHASE	FACP	FIRE ALARM ANNUNCIATOR PANEL
1P	SINGLE POLE	FABL	FIRE ALARM BELL
2/C	TWO-CONDUCTOR	FABX	FIRE ALARM BOX
3/C	THREE-CONDUCTOR	FACP	FIRE ALARM CONTROL PANEL
3PH	THREE-PHASE	FC	FOOTCANDLE
4/C	FOUR-CONDUCTOR	FL	FILM ILLUMINATOR
4W	FOUR-WIRE	FI	FIXTURE
A/C UNIT	AIR CONDITIONING UNIT	FLA	FULL LOAD AMPS
ARCH	ARCHITECT/ENGINEER	FLEX	FLEXIBLE METALLIC CONDUIT
AAP	ALARM ANNUNCIATOR PANEL	FLT	FLOODLIGHT
AC	ALTERNATING CURRENT OR ARMORED CABLE	FLUOR	FLUORESCENT
ACC	ACCESSIBLE	FLUOR FIX	FLUORESCENT FIXTURE
ADDL	ADDITIONAL	FOUIT	TELEPHONE FLOOR OUTLET
ADJ	ADJACENT, ADJOINING	FP	FIRE PROTECTION
ADO	AUTOMATIC DOOR OPENER	FT	FEET OR FOOT
AF	AMPERE FRAME OR AMP FUSE	FU SW	FUSED SWITCH
AFC	ABOVE FINISHED COUNTER, AUTOMATIC FREQUENCY CONTROL, OR AVAILABLE FAULT CURRENT	FVNR	FULL VOLTAGE NON-REVERSING
AFF	ABOVE FINISHED FLOOR	FVR	FULL VOLTAGE REVERSING
AFG	ABOVE FINISHED GRADE	G OR GND	GROUND OR GENERATOR
AH	AMPERE HOUR	GEN	GENERATOR
AHJ	AUTHORITY HAVING JURISDICTION	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
AIC	AMPERE INTERRUPTING CAPACITY	GTB	GROUND TERMINAL BOX
ALT	ALTERNATE	HID	HIGH INTENSITY DISCHARGE
ALT OR A	ALTERNATE	HOA	HAND-OFF-AUTOMATIC
AMP	AMPERE	HP	HORSEPOWER
ARCH	ARCHITECT	HT	HEIGHT
ASC	AMPS SHORT CIRCUIT	HZ	HERTZ
AT	AMPERE TRIP	IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
ATS	AUTOMATIC TRANSFER SWITCH	IMC	INTERMEDIATE METAL CONDUIT
AUTO	AUTOMATIC	INCAND	INCANDESCENT
AV	AUDIO VISUAL	INFR	INFRARED
BAT	BATTERY	IWH	INSTANTANEOUS WATER HEATER
BC	BARE COPPER	J-BOX	JUNCTION BOX
BD	BOARD	KV	KILOVOLT
BFF	BELOW FINISH FLOOR	KVA	KILOVOLT AMPERE
BL	BASIC INSULATION LEVEL	KWH	KILOWATT AMPERE PER HOUR
BLDG	BUILDING	KVAR	KILOVOLT AMPERE REACTIVE
BHP	BOILER PLANT INSTRUMENTATION PANEL	KW	KILOWATT
BRKR	BREAKER	KWH	KILOWATT HOUR
BYP	BY PASS	KWHM	KILOWATT HOUR METER
C	CONDUIT	LED	LIGHT EMITTING DIODE
CAB	CABINET	LF	LINEAR FEET (FOOT)
CALC	CALCULATE	LM	LUMEN
CAP	CAPACITY	LP	LIGHT POLE
CAT	CATALOG	LPS	LOW PRESSURE SODIUM
CATV	COMMUNITY ANTENNA TELEVISION	LRA	LOCKED ROTOR AMPS
CCR	CONTROL CONTROLLER	LTC	LOCAL TEMPERATURE CONTROL PANEL
CTV	CLOSED CIRCUIT TELEVISION	LT	LIGHT
CD	CANDELA	LTG	LIGHTING
CF	CONTRACTOR FURNISHED	LTNG	LIGHTING PANEL
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	LV	LOW VOLTAGE
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED	MATV	MASTER ANTENNA TELEVISION SYSTEM
CFE	CONTRACTOR FURNISHED EQUIPMENT	MAX	MAXIMUM
CHW	CHILLED WATER	MC	METAL-CLAD
CHWP	CHILLED WATER PUMP	MCA	MINIMUM CIRCUIT AMPS
CIR	CIRCUIT	MGB	MAIN CIRCUIT BREAKER
CKT BRKR	CIRCUIT BREAKER	MCC	MOTOR CONTROL CENTER
CLF	CURRENT LIMITING FUSE	MCP	MAIN DISTRIBUTION PANEL
CLG	CEILING	MCH	MECHANICAL
CMU	CONCRETE MASONRY UNIT	MG	MOTOR GENERATOR
COAX	COAX CABLE	MH	MANHOLE
COMM	COMMUNICATION	MIN	MINIMUM
COMP	COMPARTMENT	MOCP	MAXIMUM OVERCURRENT PROTECTION
CONC	CONCRETE	MLO	MAIN LUGS ONLY
CONT	CONTINUE	MT	MOUNT
CONTR	CONTRACTOR	MTD	MOUNTED
COORD	COORDINATE	MTG	MOUNTING
OPT	CONTROL POWER TRANSFORMER	MIS	MANUAL TRANSFER SWITCH
CRI	COLOR RENDERING INDEX	MV	MEDIUM VOLTAGE
CT	CURRENT TRANSFORMER	MVA	MEGAVOLT-AMPERE
CTV	CABLE TELEVISION	MW	MEGAWATT MICROWAVE
CU	COPPER	(N)	NEW
CU FT	CUBIC FEET	NA	NOT APPLICABLE
CUR	CURRENT	NEC	NATIONAL ELECTRICAL CODE
DB	DECIBEL OR DIRECT BURIAL	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
DC	DIRECT CURRENT	NEUT OR N	NEUTRAL
DCP	DIMMER CONTROL PANEL	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
DEG C	DEGREES CELSIUS	NIC	NOT IN CONTRACT
DEG F	DEGREES FAHRENHEIT	NL	NIGHT LIGHT
DEMO	DEMOLITION	NO	NORMALLY OPEN
DWG	DIAGRAM	NS	NO SCALE
DISC	DISCONNECT	NTS	NOT TO SCALE
DISTR	DISTRIBUTION	OC	ON CENTER
DISTR PNL	DISTRIBUTION PANEL	OD	OUTSIDE DIAMETER
DIMR SW	DIMMER SWITCH	OL	OVERLOAD
DN	DOWN	P	POLE
DPDT	DOUBLE POLE, DOUBLE THROW	PA	PUBLIC ADDRESS
DPST	DOUBLE POLE, SINGLE THROW	PB	PANELBOARD, PULL BOX, OR PUSHBUTTON
DRSW	DOOR SWITCH	PBPU	PREFABRICATED BEDSIDE PATIENT UNIT
DS	DISCONNECT SWITCH	PCB	POLYCHLORINATED BIPHENYL
DWG	DRAWING	PEC	PHOTOELECTRIC CELL
(E)	EXISTING TO REMAIN	PED	PEDESTAL
EC	ELECTRICAL CONTRACTOR	PEM	PENTHOUSE EQUIPMENT MODULE
EG	EQUIPMENT GROUND	PEND	PENDANT
EL	ELEVATION	PF	POWER FACTOR
ELEC	ELECTRIC OR ELECTRICAL	PH	PHASE
ELEV	ELEVATOR	PNL	PANEL
EMCP	EMERGENCY MONITORING CONTROL PANEL	PDD	POTENTIAL TRANSFORMER
EMR	EMERGENCY	PT	POTENTIAL TRANSFORMER
EMI	ELECTROMAGNETIC INTERFERENCE	PTV	POTENTIAL TYPE ROOF VENTILATION
EMT	ELECTRICAL METALLIC TUBING	PVR	POLYVINYL CHLORIDE (PLASTIC)
ENCL	ENCLOSURE	PWC	POWER
EPO	EMERGENCY POWER OFF	(R)	REMOVE/DEMOLISH
EPFR	EXPLOSION PROOF	(RE)	RELOCATED EXISTING
(ER)	EXISTING TO BE RELOCATED	RCP	REFLECTED CEILING PLAN
EASEMT	EASEMENT	REC	RECESSED
EW	ELECTRIC WATER COOLER	RECPT	RECEPTACLE
EWB	ELECTRIC WATER HEATER	RGS	RIGID GALVANIZED STEEL
EXIST	EXISTING	RM	ROOM
		RMS	ROOT MEAN SQUARE
		REQD	REQUIRED
		SCC	SHORT CIRCUIT CAPACITY
		SES	SERVICE ENTRANCE SECTION
		SD	SMOKE DETECTOR
		SD	SQUARE FOOT (FEET)
		SF	SHEET
		SHT	SHUTTER
		SI	INTERNATIONAL SYSTEM OF UNITS
		SPEC	SPECIFICATION
		SPST	SINGLE POLE, SINGLE THROW
		SURF	SURFACE
		SW	SWITCH
		SWBD	SWITCHBOARD
		SWGR	SWITCHGEAR
		TC	TIME CLOCK
		TEL	TELEPHONE
		TP	TWISTED PAIR
		TPS	TWISTED PAIR SHIELDED
		TTB	TELEPHONE TERMINAL BOARD
		TV	TELEVISION TYPICAL</td
		UF	UNDERFLOOR DUCT
		UGND	UNDERGROUND
		UL	UNDERWRITERS LABORATORY
		UON	UNLESS OTHERWISE NOTED
		UPS	UNINTERRUPTIBLE POWER SUPPLY
		UTIL	UTILITY
		V	VOLT
		VA	VOLT AMPERE
		VAR	VOLT AMPERE REACTIVE
		V	VARIABLE FREQUENCY DRIVE
		VOLT	VOLT
		W	WATT
		WH	WATER HEATER
		WP	WEATHERPROOF
		XFER	TRANSFER
		XFMR	TRANSFORMER

ELECTRONIC SAFETY AND SECURITY SYMBOLS

M	CARD ACCESS READER; LETTER INDICATES AS FOLLOWS: M=MOUNT C=CEILING D=DESK F=FLUSH H=HIDDEN M=MULLION P=PEDESTAL R=RACK S=SURFACE W=WALL T=TECHNOLOGY/TYPE B-BARCODE F-ELEVATOR FLOOR CALL H-ELEVATOR HALL CALL M-MAG STRIP P-PROXIMITY S-SMART CARD T-TOKEN
M	CONTROL PANEL; LETTER INDICATES AS FOLLOWS: M=MOUNT C=CEILING D=DESK F=FLUSH H=HIDDEN M=MULLION P=PEDESTAL R=RACK S=SURFACE W=WALL T=TECHNOLOGY/TYPE B-BURGLAR D=DOOR F=FIRE P=PERIMETER
M	ELECTRONIC LOCK; LETTER INDICATES AS FOLLOWS: M=MOUNT C=CEILING D=DESK F=FLUSH H=HIDDEN M=MULLION P=PEDESTAL R=RACK S=SURFACE W=WALL T=TECHNOLOGY/TYPE D-DEADBOLT H-HYBRID L-LATCH SET M-MAGNETIC S-STRIKE
M	EXIT DEVICE; LETTER INDICATES AS FOLLOWS: T=TECHNOLOGY/TYPE D-DELAYED EGRESS E-ELECTRIFIED M-MECHANICAL X-HIGH SECURITY
M	INTERCOM; LETTER INDICATES AS FOLLOWS: M=MOUNT C=CEILING D=DESK F=FLUSH H=HIDDEN M=MULLION P=PEDESTAL R=RACK S=SURFACE W=WALL T=TECHNOLOGY/TYPE M-MASTER S-SUBSTATION
M	MOTION DETECTOR; LETTER INDICATES AS FOLLOWS: M=MOUNT C=CEILING D=DESK F=FLUSH H=HIDDEN M=MULLION P=PEDESTAL R=RACK S=SURFACE W=WALL T=TECHNOLOGY/TYPE D-DUAL TECHNOLOGY IR-IR INFRARED M-MICROWAVE U-ULTRASONIC X-REQUEST-FOR-EXIT I-MOTION INTRUSION DETECTOR DT-DETECTION OF TRAFFIC IN EACH DIRECTION
M	PANIC BUTTON
M	SECURITY ACCESS, VIDEO CAMERA WITH LENS CAMERA SHALL BE AVIGILON IP CAMERA.
PP	PUSH PLATE WALL MOUNTED

FIRE ALARM SYMBOLS

FATC	FIRE ALARM TERMINAL CABINET
FACP	FIRE ALARM CONTROL PANEL (MOUNT 6'-0" ABOVE FINISHED FLOOR TO TOP); PROVIDED WITH BACK-UP BATTERIES RATED FOR 24 HOUR MINIMUM SERVICE / 5 MINUTES IN ALARM MODE
RA	FIRE ALARM REMOTE ANNUNCIATOR (MOUNT 5'-0" ABOVE FINISHED FLOOR TO TOP)
NAC	NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL (MOUNT 6'-0" ABOVE FINISHED FLOOR TO TOP); PROVIDED WITH BACK-UP BATTERIES RATED FOR 24 HOUR MINIMUM SERVICE / 5 MINUTES IN ALARM MODE
F	MANUAL PULLSTATION (MOUNT 48" ABOVE FINISHED FLOOR TO TOP OF DEVICE)
F (H)	DETECTOR, HEAT; LETTER INDICATES AS FOLLOWS: R/T = COMBINATION F = FIXED TEMP. RISE (135°) R/C = RATE COMPENSATION R = RATE OF
H	DETECTOR; LETTER INDICATES AS FOLLOWS: BLANK = SMOKE DETECTOR H = HEAT SMOKE I = IONIZATION SMOKE P = PHOTOELECTRIC SMOKE IH = IONIZATION AND HEAT SMOKE IP = IONIZATION AND PHOTOELECTRIC SMOKE PH = PHOTOELECTRIC AND HEAT SMOKE PH = IONIZATION, PHOTOELECTRIC, AND HEAT
SD	DETECTOR, SMOKE, FOR DUCT (FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR; WIRED BY THE ELECTRICAL CONTRACTOR)
15	AUTO SYNC STROBE UNIT WITH SELECTABLE CANDELA ADA COMPLIANT (MOUNT 80" ABOVE FINISHED FLOOR OR 6' BELOW FINISHED CEILING TO TOP OF DEVICE)
15	CANDELA RATING (TYP)
W S	FIRE SPEAKER UNIT W=WALL MOUNTED C=CEILING MOUNTED
W SS	FIRE SPEAKER STROBE (AUTO SYNC) UNIT WITH SELECTABLE CANDELA ADA COMPLIANT (MOUNT 80" ABOVE FINISHED FLOOR OR 6' BELOW FINISHED CEILING TO TOP OF DEVICE) W= WALL MOUNTED C=CEILING MOUNTED
CM	CONTROL MODULE
MM	MONITORING MODULE
R	120VAC, 20A RELAY IN NEMA 1 ENCLOSURE
DR	MAGNETIC DOOR HOLDER
DR	ELECTROMAGNETIC DOOR RELEASE OR DOOR RELEASE RELAY
RTS	DUCT SMOKE DETECTOR REMOTE TEST SWITCH
W	END OF LINE RESISTOR
TS	ALARM, TAMPER SWITCH
FS	ALARM, FLOW SWITCH
AS	ALARM, AIR PRESSURE SWITCH
J	JUNCTION BOX
DH	ELECTROMAGNETIC TYPE DOOR HOLDER OUTLET
DL	ELECTROMAGNETIC TYPE DOOR LOCK OUTLET
FA	FIRE ALARM LINE = FA


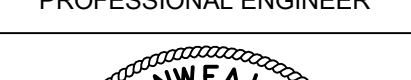

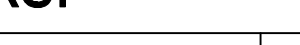
ELECTRICAL POWER SYMBOLS

M	MOTOR, SINGLE-PHASE
M	MOTOR, THREE-PHASE
T	TRANSFORMER
EG	EARTH GROUND
PB	PULL BOX
NC	NORMALLY CLOSED RELAY CONTACT
NO	NORMALLY OPEN RELAY CONTACT
F	FUSE WITH RATING
CB	MOLDED CASE CIRCUIT BREAKER
CB	LOW-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER
CB	SWITCH AND FUSE UNIT
CB	FUSED DRAWOUT POTENTIAL TRANSFORMER
CB	DISCONNECT SWITCH, FUSED
CB	DISCONNECT SWITCH, UNFUSED
CB	FUSIBLE LINK
CB	STARTER, COMBINATION WITH DISCONNECT SWITCH
CB	STARTER OR MOTOR CONTROLLER
M	METER
CH	CLOCK RECEPTACLE
T	TRANSFORMER, PLAN
WYE	WYE CONNECTION
VFD	VARIABLE FREQUENCY DRIVE
PB	PUSH BUTTON
CB	PANELBOARD, LIGHTING OR POWER
CB	ELECTRICAL STRIP MOLD (OUTLETS ON 2'-0" [610mm] CENTERS OR AS DESIGNATED ON DRAWINGS); MTD 3'-6" [1067mm] AFF OR AS INDICATED.
CB	RECEPTACLE, DUPLEX
CB	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER
CB	RECEPTACLE, DUPLEX ON EMERGENCY POWER
CB	RECEPTACLE, QUADRAPLEX
CB	RECEPTACLE, QUADRAPLEX ON EMERGENCY POWER
CB	RECEPTACLE, SINGLE
CB S	RECEPTACLE, SINGLE WITH SWITCH
CB	POWER GROUND MODULE, REFER TO TYPE 4A DETAIL 4/ES.06
CB	POWER GROUND MODULE, REFER TO TYPE 4B DETAIL 4/ES.06
CB	RECEPTACLE, SPECIAL PURPOSE A = 120V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 5-20R. B = 208V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 6-20R. C = 120V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 5-30R. D = 208V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 6-30R. E = 208V, 60A, 1 PHASE, 3-POLE, 4W, NEMA 14-60R. F = 208V, 30A, 3 PHASE, 3-POLE 4W, NEMA 15-30R. G = 208V, 50A, 3 PHASE, 3 POLE, 4W, NEMA 15-50R. H = 208V, 60A, 3 PHASE, 3 POLE, 4W, NEMA 15-60R.
CB	EMERGENCY POWER OFF (EPO) PUSH BUTTON
CB	LIGHTNING PROTECTION AIR TERMINAL
L	LIGHTNING PROTECTION WIRING
G	GROUNDING WIRING
(E)UGE	EXISTING UNDERGROUND ELECTRICAL CONDUITS
(N)UGE	NEW UNDERGROUND ELECTRICAL CONDUITS

ELECTRICAL LIGHTING SYMBOLS

\$2	SWITCH BLANK = SINGLE POLE 3 = THREE-WAY D = DIMMER LV= LOW VOLTAGE LM= LOW VOLTAGE MASTER PB= PUSH BUTTON STATION T = TIMER OPERATED X = EXPLOSION PROOF B = PATIENT BED PILLOW SPEAKER RECEPTACLE AND PADDOLE	2 = DOUBLE POLE 4 = FOUR-WAY K = KEY OPERATED L = LOCK P = WITH PILOT LIGHT W= REMOTE CONTROL WP= WEATHER PROOF MO= OCCUPANCY SENSOR
CB	DOWNLIGHT FIXTURE CEILING MOUNTED; NORMAL POWER	
CB	DOWNLIGHT FIXTURE CEILING MOUNTED; CRITICAL POWER	
CB	INDICATES RELAY DESIGNATION (TYP) INDICATES MICRO RELAY PANEL THAT CONTROLS FIXTURE (TYP) INDICATES RELAY NUMBER (TYP)	
CB	LIGHT FIXTURE, RECESSED FLUORESCENT NORMAL POWER (TYP), 2'x4' [610x1220mm]; LETTER INDICATES TYPE.	
CB	LOWERCASE LETTERS INDICATE SWITCHING INTENT (TYP) UPPERCASE LETTER INDICATES FIXTURE TYPE (TYP)	
CB	LIGHT FIXTURE, FLUORESCENT LIFE SAFETY POWER (TYP), LETTER INDICATES TYPE.	
CB	LIGHT FIXTURE, FLUORESCENT CRITICAL POWER (TYP), LETTER INDICATES TYPE.	
CB	LIGHT TRACK WITH HEADS AS SHOWN	
CB	LIGHT FIXTURE, STRIP/INDUSTRIAL FLUORESCENT; LETTER INDICATES TYPE.	
CB	LIGHT FIXTURE, WALL MOUNTED	
CB	LIGHTING, TWO HEAD EMERGENCY BATTERY POWER	
CB	EXIT SIGN, WALL MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN	
CB	EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN	
CB	MICRO PANEL, LIGHTING CONTROL SUB PANEL WITH 8 RELAYS	
CB	COMMUNICATION SYMBOLS	
CB	OUTLET, COMBINATION TELEPHONE/DATA COMMUNICATION	
CB	FLOOR RECEPTACLE, TELEPHONE	
CB	OUTLET TELEPHONE; LETTER INDICATES AS FOLLOWS: J = JACK TYPE W = WALL TYPE	
CB	OUTLET DATA ONLY	
CB	FLOOR OUTLET, DATA COMMUNICATION	
CB	TELEPHONE BACKBOARD (WALL MOUNTED)	
CB	INTERROOM	
CB	NURSE'S CALL MASTER STATION MTD ON NURSE'S COUNTER TOP UNLESS OTHERWISE NOTED.	
CB	NURSE CALL TERMINAL CABINET.	
CB	NURSE CALL STATION. 2 = DUPLICATE FACILITIES FOR TWO BEDS (SEPARATE INDICATORS AT MASTER STATION) MTD 5'-0" [1524mm] AFF UNLESS OTHERWISE NOTED. D = DUTY STATION, MTD 5'-0" [1524mm] AFF UNLESS NOTED OTHERWISE. E = MTD 6'-0" [1829mm] AFF FOR SHOWER LOCATION, MTD 4'-6" [1372mm] AFF FOR TUB LOCATION, & MTD 3'-0" [914mm] AFF FOR TOILET LOCATION. S = AUDIO VISUAL MALL STATION (STAFF) MTD 5'-0" [1524mm] AFF UNLESS OTHERWISE NOTED. U = UTILITY CALL STATION, MTD 5'-0" [1524mm] AFF UNLESS OTHERWISE NOTED. CB = CODE BLUE DEVICE, MTD 5'-0" [1524mm] AFF UNLESS OTHERWISE NOTED.	
CB	NURSE CALL DOME LIGHT 2 = NURSE'S CALL DOME LIGHT (SUFFIX INDICATES No. OF LAMP) MTD 6'-0" [152mm] ABOVE DOOR. D = CORRIDOR DOME LIGHT CODE BLUE.	
CB	SPEAKER, CEILING MOUNTED PA = PUBLIC ADDRESS	
CB	TELEVISION OUTLET: MOUNTED 6'-0" AFF, U.O.N.	
CB	AREA OF WORK	

100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

			CONSULTANTS:			MILLER-REMICK LLC PROFESSIONAL ENGINEER			ARCHITECT / ENGINEERS:			Drawing Title ELECTRICAL SYMBOLS AND ABBREVIATIONS			Project Title RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS			Project Number 581-13-101			Office of Construction and Facilities Management  Department of Veterans Affairs					
									 Miller-Remick LLC A/E/P & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW BRUNSWICK 08034 PHONE: (856)429-4000 FAX: (856)429-9002			 PF&A PF&A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-0537 Fax: 757-471-4225 www.pfa-architect.com			Approved: Medical Center Director			Location HUNTINGTON, WV						Drawing Number EO.01 Dwg. 094 of 178		
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NO. DESCRIPTION DATE																										

GENERAL NOTES AND CONDITIONS:

1. THE CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING THAT ALL RULES AND REGULATIONS, INCLUDING THOSE WHICH MAY BE ISSUED BY THE OWNER, ARE BEING OBSERVED, PARTICULARLY WORKPLACE SAFETY AND THE CONDUCT OF ALL THOSE EMPLOYED DIRECTLY AND INDIRECTLY BY HIM ON THE PREMISES, AND THE OWNER'S EMPLOYEES WHO MAY BE IMPACTED OR AFFECTED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL INSTALL SIGNAGE, BARRIERS, AND OTHER MEANS TO PROVIDE WARNING AND PERSONNEL SAFETY. PLACEMENT OF THESE ITEMS WILL BE COORDINATED WITH THE OWNER AND HIS ONGOING OPERATIONS AND WILL PROMPTLY BE REMOVED WHEN WORK IN A PARTICULAR AREA HAS BEEN COMPLETED.

1.1. DURING PERFORMANCE OF WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVISION AND MAINTENANCE OF WARNING SIGNS, LIGHT SIGNAL DEVICES, GUARD LIGHTS, BARRIERS, GUARD RAILS, FENCES AND OTHER DEVICES, APPROPRIATELY LOCATED ON AND AROUND THE JOB SITE WHICH GIVE PROPER AND UNDERSTANDABLE WARNING TO PERSONS WITH REGARD TO HAZARDOUS CONDITIONS, EQUIPMENT AND OPERATIONS BEING PERFORMED IN CONJUNCTION WITH THE WORK.

2. THIS INSTALLATION WILL CONFORM TO ALL CODES AND THE REQUIREMENTS OF FEDERAL AND STATE REGULATORY AGENCIES HAVING JURISDICTION. IN PARTICULAR, THE WORK WILL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE WEST VIRGINIA UNIFORM CONSTRUCTION CODE (UCC), INCLUDING ALL OF ITS APPLICABLE SUBCODES AND AMENDMENTS, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

BUILDING: INTERNATIONAL BUILDING CODE: 2012
ELECTRICAL: NATIONAL ELECTRIC CODE: NFPA 70 - 2011
SITE SPECIFIC: VA DESIGN GUIDE SEPTEMBER 2011

3. ALL WORK WILL BE LAWFULLY EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND WILL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING CODES (ABOVE), INDUSTRY STANDARDS, AND IN CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS.

4. WORK UNDER THIS CONTRACT SHALL CONSIST OF THE CONTRACTOR PROVIDING ALL LABOR, MATERIALS, AND SERVICES, INCLUDING WORK NOT SPECIFICALLY SHOWN BUT REASONABLY IMPLIED. THIS SHALL INCLUDE CUTTING, PATCHING AND RESTORATION OF EXISTING SURFACES DAMAGED DURING THE CONSTRUCTION. CONTRACTOR SHALL ALSO PROVIDE ALL EQUIPMENT SHOWN OR SPECIFIED OR AN APPROVED EQUIVALENT. SUBSTITUTED EQUIPMENT OR MATERIALS SHALL NOT BE INSTALLED UNTIL GIVEN WRITTEN APPROVAL BY THE OWNER.

5. EACH TRADE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR PROVIDING, INSTALLING, AND MAINTAINING ALL TEMPORARY POWER SOURCES AND ANY REQUIRED UTILITIES FOR ANY TEMPORARY MECHANICAL, PLUMBING, AND/OR ELECTRICAL EQUIPMENT OR SYSTEMS (REQUIRED BY THEIR INDIVIDUAL TRADES SCOPE OF WORK) DURING THE COURSE OF CONSTRUCTION AND PHASING/SEQUENCING OF WORK. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE INSTALLATION AND ROUTING OF: TEMPORARY FEEDERS, CONDUIT, TRANSFORMERS, ON-SITE GENERATOR PACKAGES, OVERCURRENT PROTECTION DEVICES, DISCONNECTS, CONNECTIONS AND, DISCONNECTION OF EQUIPMENT, ETC. ALL ELECTRICAL WORK MUST BE PERFORMED BY A LICENSED ELECTRICIAN. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS INCURRED FOR NONCOMPLIANCE WITH THESE CONTRACT DOCUMENTS. CONTRACTOR WILL NOT BE ALLOWED CHANGE ORDERS FOR PROBLEMS ARISING FROM NEGLECT OF PROVISIONS INCLUDED IN THESE CONDITIONS.

7. MAINTAIN ORDERLY HOUSEKEEPING DURING CONSTRUCTION, AND UPON SUBSTANTIAL COMPLETION PERFORM FINAL CLEANUP. REMOVE CONSTRUCTION RUBBISH, SCAFFOLDING, EQUIPMENT, TEMPORARY PROTECTION, TEMPORARY FIELD STRUCTURES, AND OTHER MATERIALS OR EQUIPMENT THAT WAS REQUIRED IN CONNECTION WITH THE CONSTRUCTION, BUT NOT A PERMANENT PART THEREOF.

8. THOSE PERFORMING WORK AS A CONTRACTOR MUST EXAMINE SUBSTRATES AND CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND NOTIFY THE CONTRACTOR IN WRITING, OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. COMMENCEMENT OF WORK BY A TRADE ON A SURFACE OR CONSTRUCTION SHALL IMPLY ACCEPTANCE OF SUCH SURFACE OR CONSTRUCTION. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

9. NOT USED.

10. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND MANUFACTURERS DATA SHEETS ON ALL EQUIPMENT AND MATERIALS SPECIFIED ON DRAWINGS FOR APPROVAL BY OWNER OR AGENT FOR THE OWNER. THESE DRAWINGS OR SHEETS SHALL CONTAIN ALL NECESSARY DATA, I.E., MANUFACTURER, CATALOG NUMBER, SIZE, DIMENSIONS, CAPACITY, WIRING DETAILS AND ALL OTHER ENGINEERING DATA AND DETAILS NECESSARY FOR COMPLETE CLARITY AND INSTALLATION.

11. THE CONTRACTOR SHALL KEEP ONE SET OF THE LATEST ISSUE OF DRAWINGS WHICH SHALL REFLECT THE ACTUAL INSTALLED CONDITIONS AND CONNECTIONS OF ALL EQUIPMENT AND DEVICES. THE CONTRACTOR SHALL PROVIDE COPIES OF ALL MAINTENANCE INFORMATION AND INSTRUCTIONS RECEIVED WITH EQUIPMENT AND SYSTEMS. ALL "AS-BUILT" DRAWINGS AND MISCELLANEOUS INFORMATION SHALL BE GIVEN TO THE OWNER AND ENGINEER AT COMPLETION OF WORK. THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND LABOR TO BE FREE FROM DEFECTS FOR A ONE YEAR PERIOD FROM THE TIME OF OWNER ACCEPTANCE. ANY DEFECTS OCCURRING DURING THIS PERIOD SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

12. CONTRACTOR IS TO PROVIDE ALL REQUIRED SCAFFOLDING, LADDERS, RIGGING, HOISTING AND ALL OTHER EQUIPMENT REQUIRED FOR THE INSTALLATION OF THEIR WORK.

13. ESTABLISH PASSAGE CLEARANCES REQUIRED TO DELIVER, INSTALL AND ERECT ALL REQUIRE EQUIPMENT. IF STRUCTURES, EQUIPMENT AND SYSTEMS MUST BE ALTERED TO PROVIDE PASSAGE OF EQUIPMENT, THE CONTRACTOR SHALL RESTORE STRUCTURES, EQUIPMENT AND SYSTEMS TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE, INCLUDING REMOVING AND REPLACEMENT OF ALL CEILING AS REQUIRED TO COMPLETE THE WORK.

ELECTRICAL WORK - DEMOLITION NOTES:

1. PROVIDE DEMOLITION OF EXISTING ELECTRICAL, LIGHTING, COMMUNICATIONS, TELE/DATA, AND SECURITY EQUIPMENT, DEVICES, CABLEING AND CONDUIT UNLESS NOTED OTHERWISE.

2. REMOVE ABANDONED CONDUIT AND WIRING INCLUDING EXPOSED AND THOSE ABOVE CEILINGS. ABANDON CONCEALED CONDUITS IN PLACE WHERE CONCEALMENT DOES NOT AFFECT OTHER DEMOLITION OR NEW WORK, CUT AND CAP AT WALL AND/OR FLOOR LEVEL. COORDINATE WITH GENERAL DEMOLITION.

3. REMOVE BOXES, CONDUITS, AND WIRING IN WALLS, FLOORS AND CEILINGS SCHEDULED TO BE DEMOLISHED. COORDINATE LOCATIONS WITH GENERAL DEMOLITION.

4. COORDINATE DEVICES TO BE SALVAGED AND REUSED BY OWNER PRIOR TO DEMOLITION. TURN OVER ALL SUCH DEVICES TO OWNER IN ORIGINAL CONDITION. DISPOSAL OF EQUIPMENT NOT TO BE SALVAGED IS RESPONSIBILITY OF ELECTRICAL CONTRACTOR.

5. CONTRACTOR SHALL PATCH WALLS, FLOORS, AND CEILINGS THAT ARE EXISTING TO REMAIN AND HAVE BEEN AFFECTED BY ELECTRICAL DEMOLITION WORK TO MATCH SURROUNDING MATERIALS. SURFACES SHALL BE PREPARED FOR PAINTING BY GENERAL CONTRACTOR.

6. WHERE EQUIPMENT IS TO BE RELOCATED OR DEMOLISHED, ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE WIRING AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED. COORDINATE ALL SUCH DEMOLITION WITH ASSOCIATED TRADES.

7. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO VERIFY THE SCOPE OF DEMOLITION.

8. ALL NURSE CALL EQUIPMENT MADE AVAILABLE DURING THE PHASED DEMOLITION, SHALL BE RETURNED TO THE OWNER FOR REUSE.

GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER AND ALL OTHER DISCIPLINES INVOLVED IN THIS PROJECT.

1.1. CONTRACTOR SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS AND APPLICABLE SHOP DRAWINGS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT.

1.2. VERIFY EXACT LOCATIONS AND MOUNTING OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, OUTLETS, FIRE ALARM DEVICES, VOICE/DATA DEVICES AND OTHER EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND IN THE FIELD PRIOR TO ROUGH-IN. IN CENTERING OUTLETS AND LOCATION BOXES, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT VARIATIONS IN FLOOR/ROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE, AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.

1.3. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. COORDINATE WITH ARCHITECTURAL AND/OR ENGINEERING PLANS AND INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY FINAL HINGE LOCATIONS IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.

2. THE CONDUITS SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. THEY SHOW THE GENERAL ARRANGEMENT AND SIZE OF THE CONDUITS. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET OR INTERFERENCE THAT MAY BE ENCOUNTERED. CONTRACTOR IS RESPONSIBLE FOR ROUTING ALL CONDUIT IN THE MOST EFFICIENT MANNER IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

3. ALL CONTRACTOR SUPPLIED MATERIALS SHALL BE NEW AND UL APPROVED (OR APPROVED BY ANOTHER NATIONALLY RECOGNIZED ORGANIZATION).

4. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE. HORIZONTAL OR CROSS RUNS IN PARTITIONS AND WALLS NOT PERMITTED.

5. UNLESS OTHERWISE STATED, ALL ABOVE GROUND WIRING SHALL BE IN CONDUIT, 3/4 INCH MINIMUM SIZE FOR ELECTRIC SERVICES. ALL CONDUIT BENDS SHALL BE OF THE LONG RADIUS TYPE. ALL OUTDOOR WIRING SHALL BE IN CONDUIT, 3/4 INCH MINIMUM SIZE. ALL MOTORS AND TRANSFORMERS SHALL HAVE FLEXIBLE CONNECTIONS TO MINIMIZE VIBRATION. 1/2 INCH CONDUIT IS ACCEPTABLE FOR SWITCH LEGS AND TIGHT WALL SITUATIONS. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

6. ALL WIRING SHALL BE RUN CONCEALED IN CONDUIT UNLESS SPECIFIED OTHERWISE.

7. CONTRACTOR SHALL USE TRAPEZE TO SUPPORT MULTIPLE CONDUITS FROM BUILDING STEEL.

8. SECURE ALL SUPPORTS TO BUILDING STRUCTURE BY STEEL FOR VERTICAL SUPPORT AND BY MEANS OF BOLTS TO CONCRETE OR MASONRY WALLS. EXPANSION SHELDIS IN CONCRETE OR BRICK. MACHINE SCREWS ON METAL SURFACE, AND WOOD SCREWS ON WOOD CONSTRUCTION. NAILS, RAWL OR WOOD PLUGS NOT PERMITTED. SUPPORT HORIZONTAL RUNS OF METALLIC CONDUITS NOT MORE THAN 10 FT. APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.

9. ALL CONDUIT INSTALLATIONS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION OR EXPANSION/DEFLECTION TYPE FITTINGS AS REQUIRED. NOTE: FOR THE EXACT LOCATIONS OF EXPANSION JOINTS, SEE OWNER FOR EXISTING STRUCTURAL DRAWINGS.

10. ALL UNDERGROUND CONDUITS SHALL BE SEALED TO PREVENT THE ENTRY OF WATER OR GASES.

11. PASS RACEWAYS OVER WATER, STEAM, OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3 IN. OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1 IN. FROM PIPE COVER.

12. FURNISH PULL STRING IN EACH ROOM OVER 10 FT IN WHICH WIRING IS NOT INSTALLED.

13. CUT STEEL CONDUIT ENDS SQUARE, REAM SMOOTH, PAINT MALE THREADS OF FIELD THREADED CONDUIT WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH CONDUIT COUPLINGS.

14. NOT USED.

15. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE REGARDING ELECTRODE, GROUNDINGS AND BONDING REQUIREMENTS FOR SERVICE, EQUIPMENT AND ENCLOSURES. ALL EQUIPMENT SHALL BE PROVIDED WITH A SEPARATE GROUNDING CONDUCTOR.

16. CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BOXES WITH FLEXIBLE CONDUIT (MINIMUM 18 IN. LENGTH AND 50% SLACK). DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.

17. PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS. IN COMMON BOXES, PROVIDE BARRIERS BETWEEN EMERGENCY AND NORMAL WIRING.

18. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS.

19. WIRE COLOR CODING: PER CODE WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 6") IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE SELECTED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.

20. PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32°F.

21. PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.

22. ALL SWITCHES SHALL BE MOUNTED AT 4'-6" ABOVE THE TOP OF FINISHED FLOOR, UNLESS OTHERWISE NOTED. ALL RECEPTACLES SHALL BE MOUNTED AT 18" ABOVE THE TOP OF FINISHED FLOOR, UNLESS OTHERWISE NOTED.

23. PROVIDE PULL BOXES AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATIONS WITH OTHER TRADES.

24. FOR EMPTY RACEWAY RUNS, PROVIDE PULL BOXES EVERY 100FT AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.

25. JUNCTION AND PULL BOXES: LOCATE GENERALLY NOT EXPOSED IN FINISHED SPACES. WHERE NECESSARY, REROUTE CONDUITS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE.

26. SUPPORT JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON CONDUITS.

27. ELECTRICAL CONTRACTOR SHALL COORDINATE ADDITIONAL CONDUIT CIRCUITING REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE ADDITIONAL 120V/1P CONTROL CIRCUITS (VIA 2#12+1#12G. IN 3/4") ON NEAREST, SPARE 20A/1P CIRCUIT BREAKER(S) IN 200V ELECTRICAL PANEL HAVING SUFFICIENT SPARE AMPERAGE CAPACITY. PROVIDE NEW CIRCUIT BREAKER(S) AS REQUIRED. PROVIDE ADDITIONAL CONNECTIONS TO LOW VOLTAGE TRANSFORMERS (PROVIDED BY CONTROLS CONTRACTOR).

28. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT AND/OR ENGINEER PRIOR TO INSTALLATION.

29. FIRESTOP SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED WALL, PANELBOARDS, DISCONNECTS, AUTOMATIC TRANSFER SWITCHES, ETC., SHALL BE MOUNTED SO THAT THE DISTANCE FROM THE TOP CIRCUIT BREAKER OPERATING HANDLE, TO THE TOP OF THE FINISHED FLOOR SHALL NOT EXCEED 6'-6" (MAX.).

30. ALL PANELS SHALL BE BALANCED AS EVENLY AS POSSIBLE ACROSS PHASES. ALL PANELS SHALL HAVE PERMANENT DIRECTORIES. CIRCUIT CHANGES SHALL BE REFLECTED ON 'AS BUILT' DRAWINGS.

31. ALL SURFACE MOUNTED PANELS AND PANELBOARDS INSTALLED ON THE INSIDE FACE OF EXTERIOR WALLS, ABOVE GRADE OR IN OTHER LOCATIONS CONSIDERED AS DAMP, SHALL BE MOUNTED SO AS TO MAINTAIN A 1/4" AIR SPACE BETWEEN THE ENCLOSURE AND THE FACE OF THE WALL.

GENERAL ELECTRICAL NOTES (CONT.):

32. ALL NEW ELECTRICAL PANELS SHALL BE LOCKABLE. PROVIDE OWNER WITH TWO (2) KEYS PER PANEL.

33. EXACT LOCATION OF MECHANICAL EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL DRAWINGS.

34. ALL DEVICES SHALL BE ADEQUATELY IDENTIFIED WITH PERMANENT LABELS OR TAGS. WIRING SHALL BE IDENTIFIED AS TO PHASING AND CONDUCTOR IDENTIFICATION.

35. CONDUIT HOMERUNS SHOWN ON THE DRAWING WITH MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL NOT INSTALL MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY UNLESS DONE SO STRICTLY BY THE NATIONAL ELECTRIC CODE.

36. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.

37. MULTI-GANG BACKBOXES FOR DIFFERENT VOLTAGES AND TYPES OF EMERGENCY AND NORMAL BRANCH WIRING DEVICES SHALL HAVE DIVIDERS BETWEEN DEVICES.

38. ALL TEMPORARY WIRING, LIGHTING AND POWER CIRCUITS AND DEVICES SHALL BE INSTALLED TO MEET THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, LOCAL, STATE AND FEDERAL REQUIREMENTS FOR SUCH TEMPORARY INSTALLATION.

39. THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT RECEPTACLES USED FOR HAND TOOLS AND OTHER MISCELLANEOUS EQUIPMENT SHALL BE INSTALLED WITH GROUND FAULT INTERRUPTER OR OTHER APPROVED AND RECOGNIZED INTERRUPTING SENSORS.

40. ALL OPENINGS SHALL BE SEALED UPON COMPLETION OF INSTALLATION TO PREVENT THE SPREAD OF SMOKE AND FIRE THROUGH OPENINGS. OPENINGS SHALL ALSO BE SEALED TO PREVENT WATER SEEPAGE WHERE APPLICABLE. ALL OPENINGS SHALL BE COORDINATED WITH OTHER CRAFTS TO PREVENT INTERFERENCE AND OBSTRUCTION. PENETRATIONS THROUGH FIRE WALLS MUST BE MADE BY AN APPROVED THROUGH PENETRATION FIRESTOP SYSTEM.

41. THE COMPLETE INSTALLATION SHALL BE TESTED AT COMPLETION OF WORK, TO BE FREE OF GROUNDS AND SHORT CIRCUITS CONDITIONS. ALL INTERLOCK CIRCUITS SHALL BE TESTED TO VERIFY CORRECT OPERATION OF EACH DEVICE. ALL ROTATING EQUIPMENT SHALL BE JOGGED TO VERIFY CORRECT ROTATION BEFORE PERMANENTLY ENERGIZING.

42. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK AND SHUTDOWNS OF EQUIPMENT WITH FACILITY.

43. EXCAVATION FOR UNDERSLAB OR UNDERGROUND INSTALLATION OF CONDUITS SHALL BE APPROACHED WITH EXTREME CAUTION SO AS NOT TO DAMAGE EXISTING UNDERGROUND PIPING, WIRING AND CONDUITS.

44. ELECTRICAL CONTRACTOR SHALL PROVIDE CONSTRUCTION MANAGER/GENERAL CONTRACTOR A SURFACE PENETRATING RADAR SURVEY FOR THE PURPOSE OF LOCATING ALL UNDERGROUND (OR IN-SLAB) CONDUITS, PIPING, UTILITIES, STRUCTURAL MEMBERS, ETC. IN ALL AREAS WHERE SLAB CUTTING MAY OCCUR (FOR THE PURPOSES OF ELECTRICAL WORK REQUIRED). SURVEY MUST BE COMPLETED TWO WEEKS PRIOR TO CUTTING OF ANY SLAB. THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY (AND ALL ASSOCIATED COSTS) OF REPAIRING AND/OR RELOCATING ANY SYSTEMS DAMAGED BY THE SLAB CUTTING PROCEDURES, WHEN PREVENTATIVE MEASURES WERE NOT CONSIDERED OR UTILIZED. COST FOR SURVEY(S) SHALL BE SUBMITTED AS A SEPARATE LINE ITEM PRICE (WHEN APPLICABLE).

45. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING VOLTAGE, PHASE, MCA, MOP, REQUIRED FOR ALL EQUIPMENT PROVIDED BY OTHER CONTRACTORS PRIOR TO PURCHASING AND INSTALLING CONDUCTORS, BREAKERS, DISCONNECTS, CONDUIT, ETC. VERIFY RATINGS WITH FINAL, APPROVED CONTRACTOR EQUIPMENT SUBMITTALS AND EQUIPMENT NAMEPLATES DIRECTLY WITH THE PROVIDING CONTRACTOR.

46. UNLESS NOTED OTHERWISE WITHIN THE PROJECT CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, ALL NEW ELECTRICAL DEVICES INDICATED ON THE ELECTRICAL PLANS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR (EXAMPLE: DISCONNECT SWITCHES, CIRCUIT BREAKERS, WIRING, CONDUIT, ETC.). VARIOUS FREQUENCY DRIVES, VFD CONTROL PANELS, DISCONNECT SWITCHES, COMBINATION MOTOR STARTER/DISCONNECTS AND ASSOCIATED COMPONENTS FOR NEW EQUIPMENT PROVIDED BY OTHERS SHALL BE PROVIDED BY THE CORRESPONDING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR (WHEN NOT FACTORY INSTALLED).

47. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REVIEW THE ELECTRICAL PLANS AND SPECIFICATIONS FOR EXISTING DEVICES TO BE REMOVED. PROJECT PLANS AND SPECIFICATIONS FROM OTHER DISCIPLINES, TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE AND COORDINATED RESPONSIBILITIES. CONFLICT OF INTENDED RESPONSIBILITIES SHALL BE BROUGHT TO ENGINEERS ATTENTION, PRIOR TO SUBMISSION OF BID.

48. DURING THE COURSE OF CONSTRUCTION, COORDINATION AND FINAL TURNOVER, IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO WORK CLOSELY WITH ALL CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.

49. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH COULD REQUIRE ADDITIONAL ELECTRICAL WORK (DISCONNECT, RECONNECTION, ETC.) AND ARE NOT INDICATED ON THE ELECTRICAL DRAWINGS.

50. CONTRACTOR SHALL COORDINATE ALL TEMPORARY ELECTRICAL POWER WITH UTILITY, AS REQUIRED, DURING DEMOLITION AND CONSTRUCTION ACTIVITIES AND SHALL BE RESPONSIBLE FOR THE USAGE AND PAYMENT THEREOF. CONTRACTOR SHALL COORDINATE ACTIVATION OF NEW PERMANENT POWER FOR VA.

51. EXISTING BUILDING ELECTRICAL INFRASTRUCTURE IS POURED INTO THE SLAB. CONTRACTOR SHALL PROVIDE X-RAY TESTING, PRIOR TO CONSTRUCTION, IN ALL AREAS WHERE THE EXISTING SLAB IS TO BE CUT. PROVIDE X-RAY TESTING REPORT TO ENGINEER FOR REVIEW. ANY HARM TO EXISTING INFRASTRUCTURE INCURRED DURING CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR.

52. ELECTRICAL CONTRACTOR SHALL INCLUDE A NEW SURVEY OF THE EXISTING WIFI SYSTEM IN THE O.R. SUITE AS PART OF THE SCOPE OF WORK. ALL EXISTING WIRELESS ACCESS POINTS SHALL BE REINSTALLED DURING PHASED WORK.

53. COORDINATE WITH IT PERSONNEL FOR ACCESS TO SECURE IT ROOMS.

54. ELECTRICAL CONTRACTOR SHALL SEAL ALL PENETRATIONS ABOVE ACCESSIBLE CEILING IN ROOMS 38-155, 38-155A, 38-156, 38-183, 38-184, 38-185.

55. ELECTRICAL CONTRACTOR SHALL PROVIDE, AT THE COMPLETION OF THE PROJECT, 100% WIRELESS DATA COVERAGE BASED ON THE STANDARDS LISTED IN THIS NOTE AND NOTE 56. TO ACCOMPLISH THIS, NEW WIRELESS ACCESS POINTS (WAPS) SHALL BE ADDED TO THE SCOPE OF WORK BASED ON THE CRITERIA LISTED BELOW. A NEW CAT 6 CABLE SHALL BE PROVIDED FROM EACH WAP TO THE NEW DATA RACK IN COMM 38-162.

- ALL AREAS MUST BE COVERED WITH ONE WAP AT -67dBm SIGNAL STRENGTH ON 2.4 AND 5GHz.
- ALL AREAS MUST BE COVERED WITH ONE WAP AT 25dB SIGNAL TO NOISE RATIO ON 2.4 AND 5GHz.
- ALL AREAS MUST BE COVERED WITH THREE WAPS AT -75dBm SIGNAL STRENGTH ON 2.4GHz.
- CORNER WAPS WILL BE CLOSE TO THE PERIMETER EDGE.
- PLACE PERIMETER WAPS AT OR NEAR THE EDGE OF THE BUILDING.
- IF BUILDING IS A WING (I.E. HALLWAY WITH ROOMS ON BOTH SIDES) THEN AT THE END OF THE WING, PLACE WAPS IN BOTH CORNERS AND CONTINUE PLACEMENT FOR THREE AP COVERAGE AT -75DB SIGNAL STRENGTH.
- IF THERE IS MORE THAN -80DB BLEED BETWEEN FLOORS, WAPS MUST BE STAGGERED ON ADJACENT FLOORS, WITH A WING WHERE THE CORNERS WERE USED FOR TRIANGULATION, STAGGER THE WAPS ON ADJACENT FLOORS. (THIS REQUEST OVERRIDES ABOVE PLACEMENT REQUIREMENTS)
- ELEVATOR WAPS MAY BE STACKED.
- UTILIZE PATIENT ROOMS AND OFFICES FOR WAP PLACEMENT.
- REQUIRED TO WALK TO THE -75DBm SIGNAL STRENGTH BOUNDARY ON 2.4 GHZ. THIS IS TO ENSURE DATA COLLECTION OF THE 3RD AP COVERAGE AT -75DB REQUIREMENT

56. ELECTRICAL CONTRACTOR SHALL PROVIDE, OR SHALL HIRE A 3RD PARTY TO PROVIDE, A DETAILED SURVEY OF THAT VA APPROVED FORMAT OF THE WIRELESS DATA SYSTEM. RELOCATED AND/OR DISCONNECTED WITH THE WORK INDICATED ON THE CONTRACT DRAWINGS. DETERMINE AND COORDINATE ALL EQUIPMENT LOCATIONS PRIOR TO INITIAL ROUGH-IN.

- TO PROVIDE 802.11 WIRELESS COVERAGE IN THE 2.4 AND 5 GHZ FREQUENCIES.
- TO CONSIDER IMPLEMENTATION USING CISCO 1131/1242 WIRELESS ACCESS POINTS (WAP).
- TO PRODUCE A WLAN DESIGN TO SUPPORT DATA, VOICE, AND LOCATION SERVICES.
- TO UTILIZE TOOLS TO PRODUCE DETAILED COVERAGE HEATMAPS AND SPECTRUM ANALYSIS TOOLS TO IDENTIFY ALL POTENTIAL SOURCES OF NOISE AND INTERFERENCE.

FIRE ALARM DEMOLITION NOTES:

1. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH RELOCATION AND REMOVAL OF FIRE ALARM SYSTEM WORK AS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN ISSUES WHEN CONCEALED WORK HAS BEEN EXPOSED. NO ADDITIONAL CLAIMS FOR WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, UNLESS, IN CERTAIN CASES, CONSIDERED JUSTIFIABLE BY THE ENGINEER.

2. NOTE THAT THE FACILITY WILL BE FULLY OPERATIONAL DURING THE COURSE OF THIS PROJECT.

2.1. THE CONTRACTOR IS TO COORDINATE ALL OF THE DEMOLITION WORK WITH THE FACILITY PERSONNEL TO MINIMIZE DISTURBING THE OPERATING EQUIPMENT, WIRING AND SYSTEMS.

2.2. THE CONTRACTOR SHALL PERFORM REMOVAL AND DEMOLITION WORK WITH MINIMAL INTERFERENCE WITH EXISTING SYSTEMS.

3. DEMOLITION AND REMOVAL OF WORK SHALL BE PERFORMED IN A NEAT AND PROFESSIONAL MANNER. THE CONTRACTOR SHALL RESTORE, PATCH, PAINT, ETC., ANY INTERIOR/EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.

4. REFER TO FIRE ALARM PLANS FOR NEW EQUIPMENT AND DEVICE LAYOUTS AND EXTENT OF EQUIPMENT BEING REPLACED, RELOCATED, OR REMOVED. COORDINATE WITH ALL TRADES AS TO EXTENT OF EQUIPMENT BEING REMOVED OR RELOCATED. CLOSELY COORDINATE THE EXTENT OF DEMOLITION SCOPE OF WORK WITH ARCHITECT, ENGINEER AND/OR MECHANICAL PLANS. PATCH AND PAINT (TO MATCH SURROUNDING CONDITIONS) ALL OPENINGS CREATED BY THIS DEMOLITION.

5. EXISTING CONDITIONS, EQUIPMENT, MATERIALS & SIZES ARE SHOWN FOR REFERENCE ONLY. VERIFY EXISTING CONDITIONS AND BRING ANY DISCREPANCIES TO THE ENGINEER'S ATTENTION IN WRITING PRIOR TO BID SUBMISSION.

6. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIRE ALARM SYSTEM DEMOLITION WORK FOR THIS PROJECT WHETHER OR NOT SPECIFICALLY INDICATED ON THIS OR OTHER DEMOLITION PLANS. THIS WORK SHALL INCLUDE BUT IS NOT LIMITED TO THE DISCONNECTION, REMOVAL AND DISPOSAL OF: INITIATION AND NOTIFICATION DEVICES, JUNCTION BOXES, WIRE, CABLED, CONDUIT, MOUNTING HARDWARE STRAPS OR CABLES, ETC. PER THE SCOPE OF WORK FOR THIS PROJECT.

7. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL FIRE ALARM DEVICES, INCLUDING ASSOCIATED WIRING, CONDUITS, COVERS, BOXES, ETC., WHERE INDICATED ON THE PLANS. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING WIRING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL IN THE CEILING SPACE, JUNCTION BOXES AND OTHER DEVICES AND PROVIDE BYPASS CONNECTIONS NECESSARY TO MAKE CIRCUITS AFFECTED CONTINUOUS AND READY FOR OPERATION. OTHERWISE, WIRING SHALL BE REMOVED BACK TO THE NEAREST ELECTRICAL JUNCTION BOX THAT IS TO REMAIN OR TO THE SOURCE PANELBOARD.

8. ALL WORK MUST BE SCHEDULED AND PERFORMED AS NOT TO INTERRUPT NORMAL OPERATIONS. REMOVAL OF ITEMS THAT WILL CAUSE ANY TYPE OF TEMPORARY SHUTDOWN SHALL BE PERFORMED DURING OFF-PEAK HOURS. ALL SUCH OUTAGES SHALL BE SCHEDULED AND COORDINATED WITH OWNER FIELD REPRESENTATIVE TO ENSURE ESSENTIAL SERVICES OR AREAS CAN BE MAINTAINED.

9. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING. SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS. THE CONTRACTOR SHALL CLOSELY FOLLOW THE DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE.

10. THE SHUTDOWN OF EXISTING BUILDING FIRE ALARM SYSTEM SHALL BE COORDINATED WITH THE OWNER. MAKE APPROPRIATE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.

11. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING FIRE ALARM SYSTEM WORK WHICH INTERFERES WITH THE NEW SYSTEM AND ARCHITECTURAL LAYOUTS IN FULL COORDINATION WITH THE ENGINEER'S PLANS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE DE-ENERGIZED AND DISCONNECTED AT THE SOURCE.

12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND MAINTAIN ANY CONNECTIONS / DISCONNECTIONS AS NEEDED TO ENSURE ADEQUATE SAFETY AND PROTECTION OF ALL PERSONNEL AND EQUIPMENT.

13. ALL FIRE ALARM PANELS AND NOTIFICATION APPLIANCE POWER EXTENDERS SHALL BE MAINTAINED AS WORKING PANELS THROUGHOUT CONSTRUCTION AND WILL CONTINUE TO MAINTAIN CIRCUITS FOR EXISTING DEVICES TO REMAIN. PROVIDE AS NECESSARY TEMPORARY FEEDS TO ANY DEVICES THAT MAY BE REQUIRED FOR UNINTERRUPTED USE. PROVIDE TEMPORARY CONNECTIONS FOR RELOCATED EQUIPMENT DURING CONSTRUCTION.

14. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ANY DEVICES LOCATED OUTSIDE OF DEMOLITION WORK AREA ARE NOT AFFECTED BY REMOVAL OF WIRING AND/OR CIRCUITING. WIRING/CONDUIT SHALL BE LEFT IN A SAFE CONDITION, LABELED FOR ITS USE, AND EXTENDED AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY, INCLUDING ALL APPLICABLE CONTROLS.

15. PORTIONS OF INITIATION AND NOTIFICATION LOOP RUNS THAT SHALL BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ENERGIZED, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED. NEW LOOP EXTENSIONS SHALL MATCH EXISTING WIRING SPECIFICATIONS IN ALL ASPECTS INCLUDING BUT NOT LIMITED TO CABLE TYPE, CONDUIT SIZES, ETC..

16. ALL EXISTING LOW VOLTAGE WIRING FOR FIRE ALARM SYSTEMS THAT ARE NOT REUSED SHALL BE REMOVED IN ITS ENTIRETY BY THE RESPONSIBLE CONTRACTOR.

17. CONTRACTOR IS TO EXERCISE EXTREME CAUTION WHEN CUTTING SLAB TO AVOID DAMAGE TO ANY EXISTING CONDUITS, PIPING, ETC. THAT MAY BE CONCEALED IN OR BENEATH THE SLAB. ANY FLOOR SLAB AFFECTED BY THE REMOVAL OF DEVICES FEED VIA UNDERGROUND CONDUIT OR WIRING, SHALL BE FIRESTOPPED AND PATCHED BY THE GENERAL CONTRACTOR AND TO MATCH SURROUNDING FLOOR.

18. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DISCONNECTING, RELOCATING, AND/OR RECONNECTING ALL EXISTING EQUIPMENT THAT IS TO REMAIN, EVEN IF THIS EQUIPMENT IS NOT SHOWN ON PLANS OR SCHEDULES. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR EXTENDING EXISTING SYSTEM LOOPS FROM EXISTING EQUIPMENT THAT IS REMAINING TO NEW LOCATION.

19. IN THE EVENT THAT FIRE ALARM PLANS CALL FOR EXISTING WIRING TO BE REUSED, THE ELECTRICAL CONTRACTOR SHALL SURVEY EXISTING WIRING, BOXES, ETC. TO DETERMINE IF THE EXISTING WIRING MAY BE REUSED FOR NEW DEVICES (IF WIRING REMAINS IN ITS ORIGINAL CONDITION). ELECTRICAL CONTRACTOR SHALL DETERMINE THAT THE ENTIRE RUN OF EXISTING WIRING, FROM SOURCE TO DEVICE FOR WIRING TO BE REUSED, IS FEASIBLE FOR REUSE AND MEETS THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES HAVING JURISDICTION.

19.1. IN INSTANCES WHERE EXISTING WIRING IS TO BE EXTENDED OR REUSED, ELECTRICAL CONTRACTOR SHALL DISCONNECT EXISTING WIRING AND LEAVE IN A SAFE CONDITION (TAG AND LABEL ITS USE) FOR FUTURE RECONNECTION DURING RENOVATION PHASE.

20. ALL UNUSED OUTLET BOXES THAT ARE TO REMAIN SHALL BE PROVIDED WITH MATCHING BLANK COVERS.

21. ALL RACEWAYS WHICH ARE EXPOSED AS A RESULT OF NEW WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.

22. EXISTING RACEWAYS THAT ARE NOT BEING REUSED SHALL BE REMOVED BACK TO THE NEAREST JUNCTION OR PULLBOX, AND THE OPENINGS BLANKED.

23. ANY CONDUITS PENETRATING MASONRY SURFACES SHALL BE CUT INTO SURFACE, PATCHED, AND PAINTED TO MATCH SURROUNDINGS.

24. DISCONNECT, RELOCATE OR REMOVE ELECTRICAL INSTALLATIONS AND EQUIPMENT AS INDICATED BY PLANS AND AS REQUIRED BY CHANGES IN CONSTRUCTION. WHERE EXISTING ELECTRICAL INSTALLATIONS INTERFERE WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE NEW INSTALLATIONS SHALL BE RELOCATED AND/OR DISCONNECTED WITH THE WORK INDICATED ON THE CONTRACT DRAWINGS. DETERMINE AND COORDINATE ALL EQUIPMENT LOCATIONS PRIOR TO INITIAL ROUGH-IN.

FIRE ALARM DEMOLITION NOTES (CONT.):

25. DISCONNECT AND RELOCATE/RECONNECT ANY ELECTRICAL LINES, DEVICES (INCLUDING FIRE ALARM DEVICES), ETC. AND REPAIR PULL BOXES THAT MAY BE DISTURBED DURING THIS RENOVATION, UNLESS NOTED OTHERWISE. ALL EXISTING ELECTRICAL WORK WHICH WILL NOT BE RENDERED OBSOLETE AND WHICH MAY BE DISTURBED DUE TO ANY CHANGES REQUIRED UNDER THE CONTRACT, SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION AT NO COST TO OWNER. IF ANY EQUIPMENT TO REMAIN IS DAMAGED DURING CONSTRUCTION, IT SHALL BE REPLACED WITH NEW (WITH NO COST APPLIED TO EQUIPMENT).

26. ALL MATERIALS AND EQUIPMENT TO BE DEMOLISHED ARE TO BE DISPOSED OF BY THE CONTRACTOR, UNLESS DIRECTED OTHERWISE BY THE OWNER. CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL MATERIALS IN ACCORDANCE WITH LOCAL AND FEDERAL LAWS. ALL MATERIALS THAT ARE CONSIDERED TO BE RECYCLABLE ARE TO BE RECYCLED ACCORDINGLY BY THE CONTRACTOR.

GENERAL FIRE ALARM NOTES:

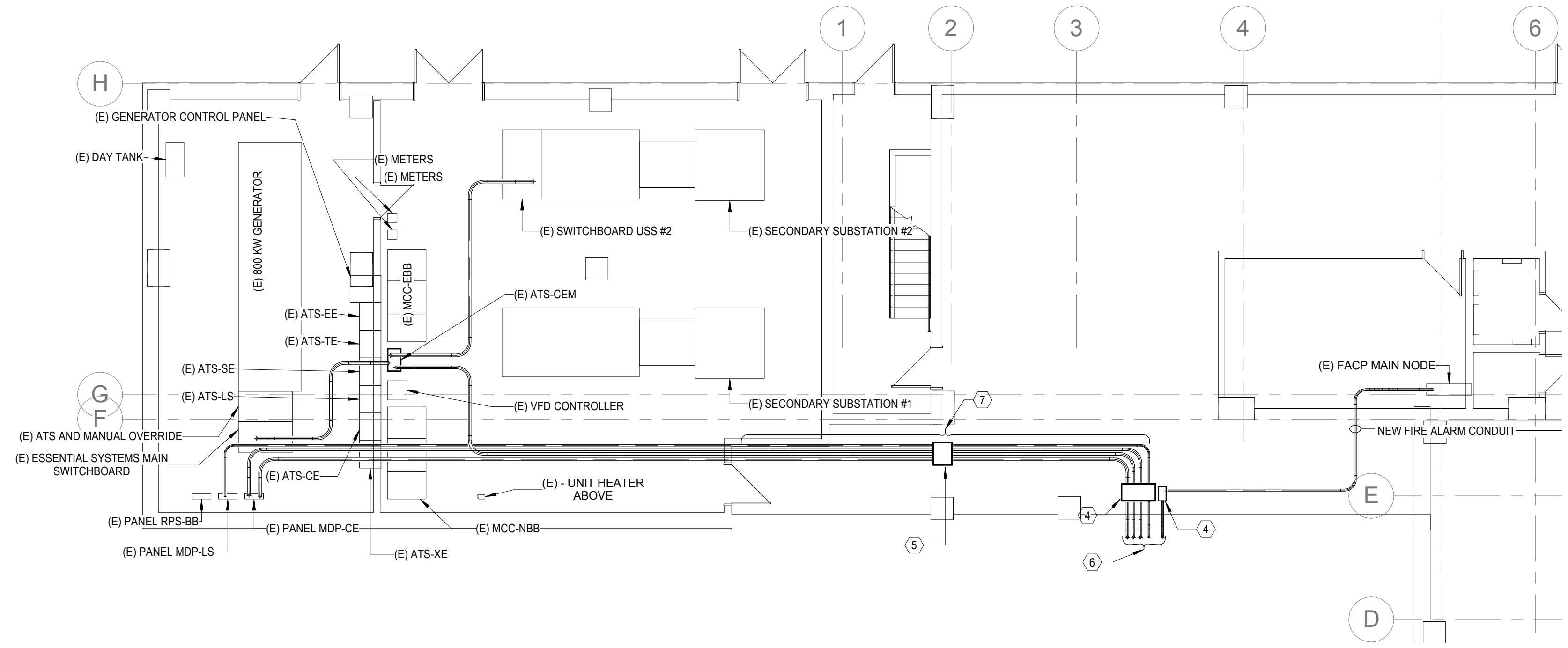
1. FIRE ALARM SYSTEM SHALL BE AN ADDRESSABLE TYPE SYSTEM, AND DEVICES SHALL BE INDIVIDUALLY ADDRESSED.

2. MODIFICATIONS TO THE FIRE ALARM SYSTEM SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR'S FIRE ALARM VENDOR. PLANS REFLECT THE DESIGN INTENT ONLY AND ARE TO BE USED FOR DEVICE PLACEMENT ONLY. ALL MODIFICATIONS REQUIRED BY THE OWNER AND THE LOCAL FIRE OFFICIALS SHALL BE INCORPORATED INTO THE INSTALLED SYSTEM.

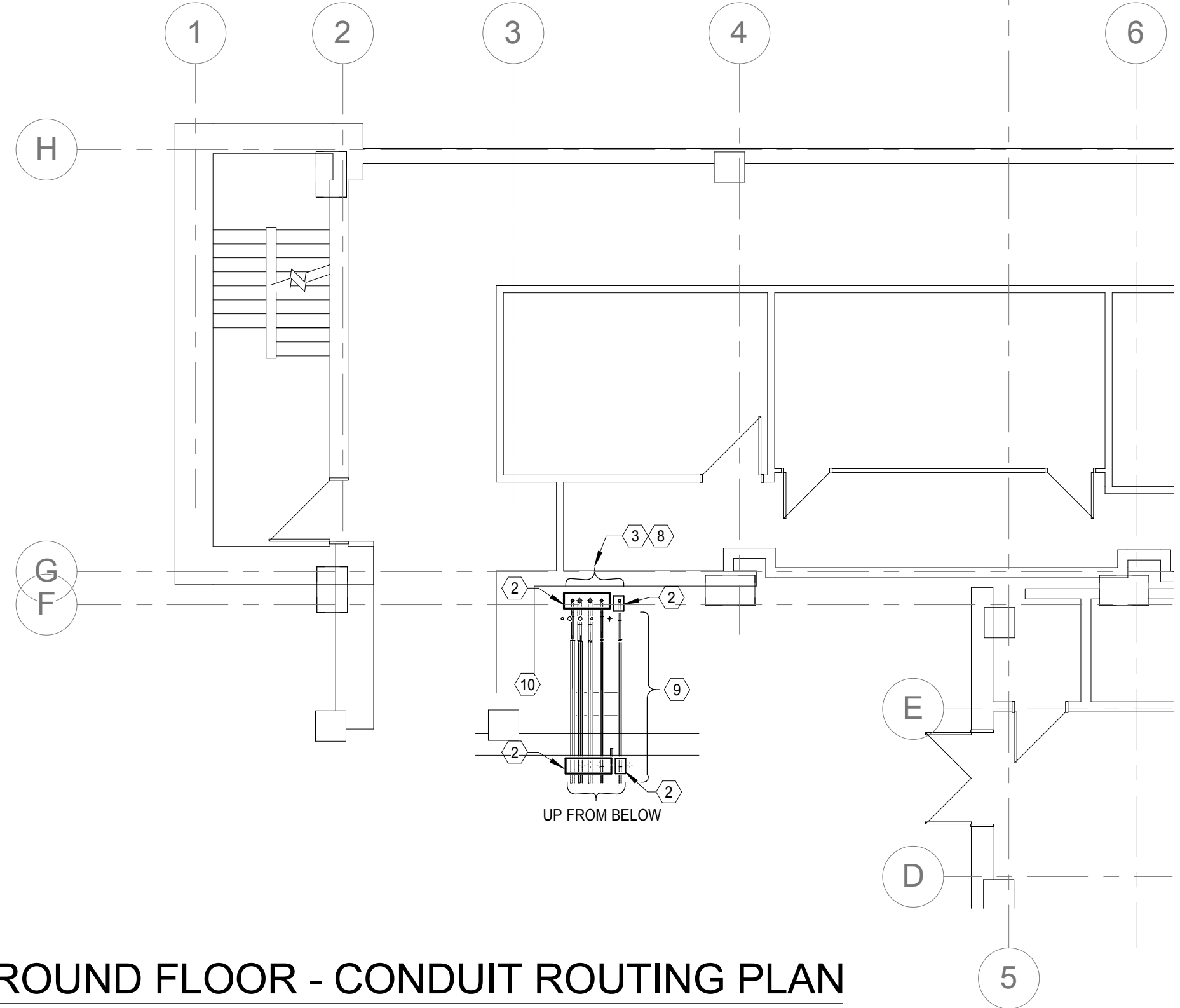
3. ALL COMPONENTS SHALL BEAR THE U.L. LABEL FOR FIRE SERVICE USE AND SHALL BE COMPATIBLE FOR USE WITH ALL INTERCONNECTING EQUIPMENT.

4. PROVIDE PERMANENT, "

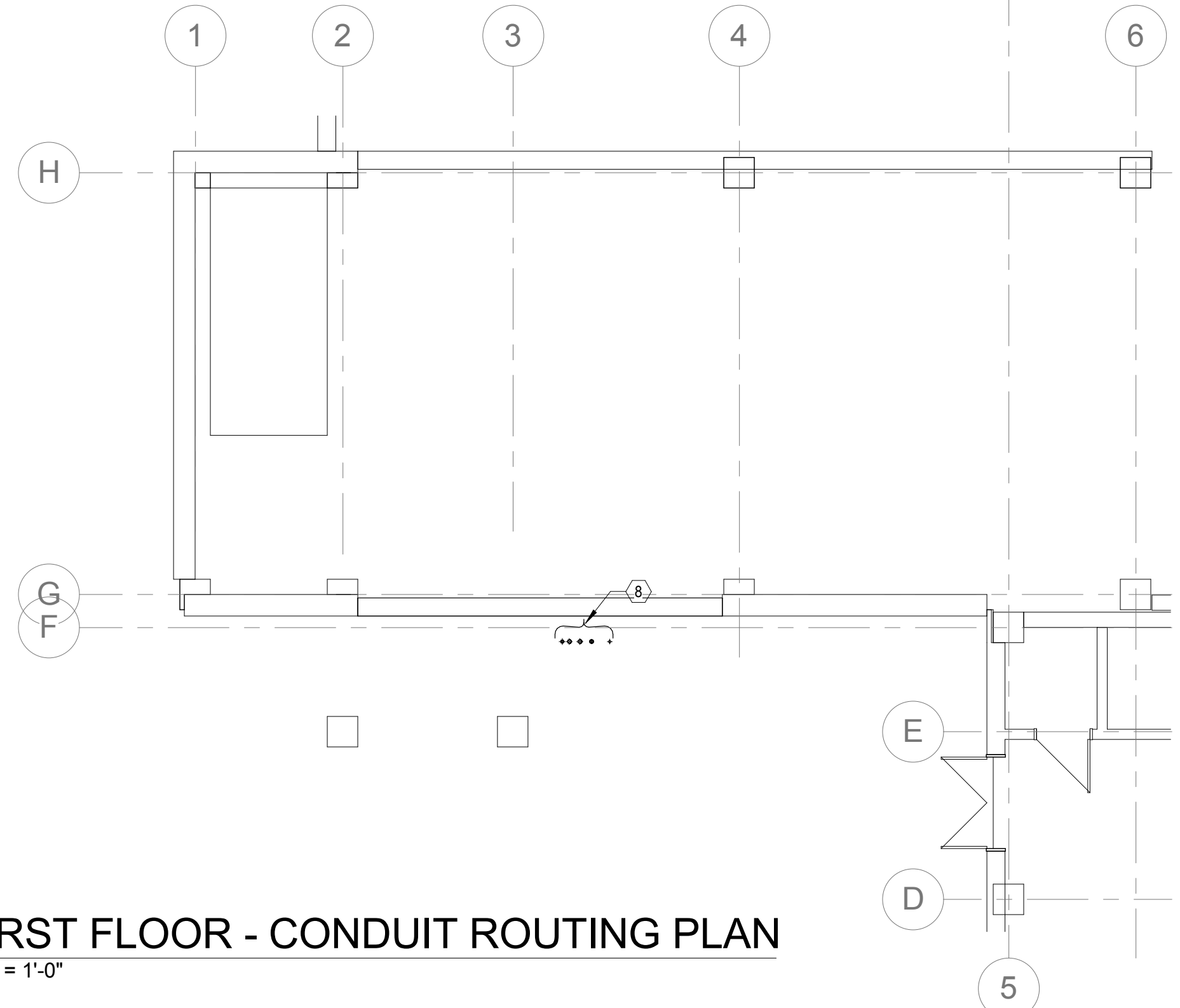
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



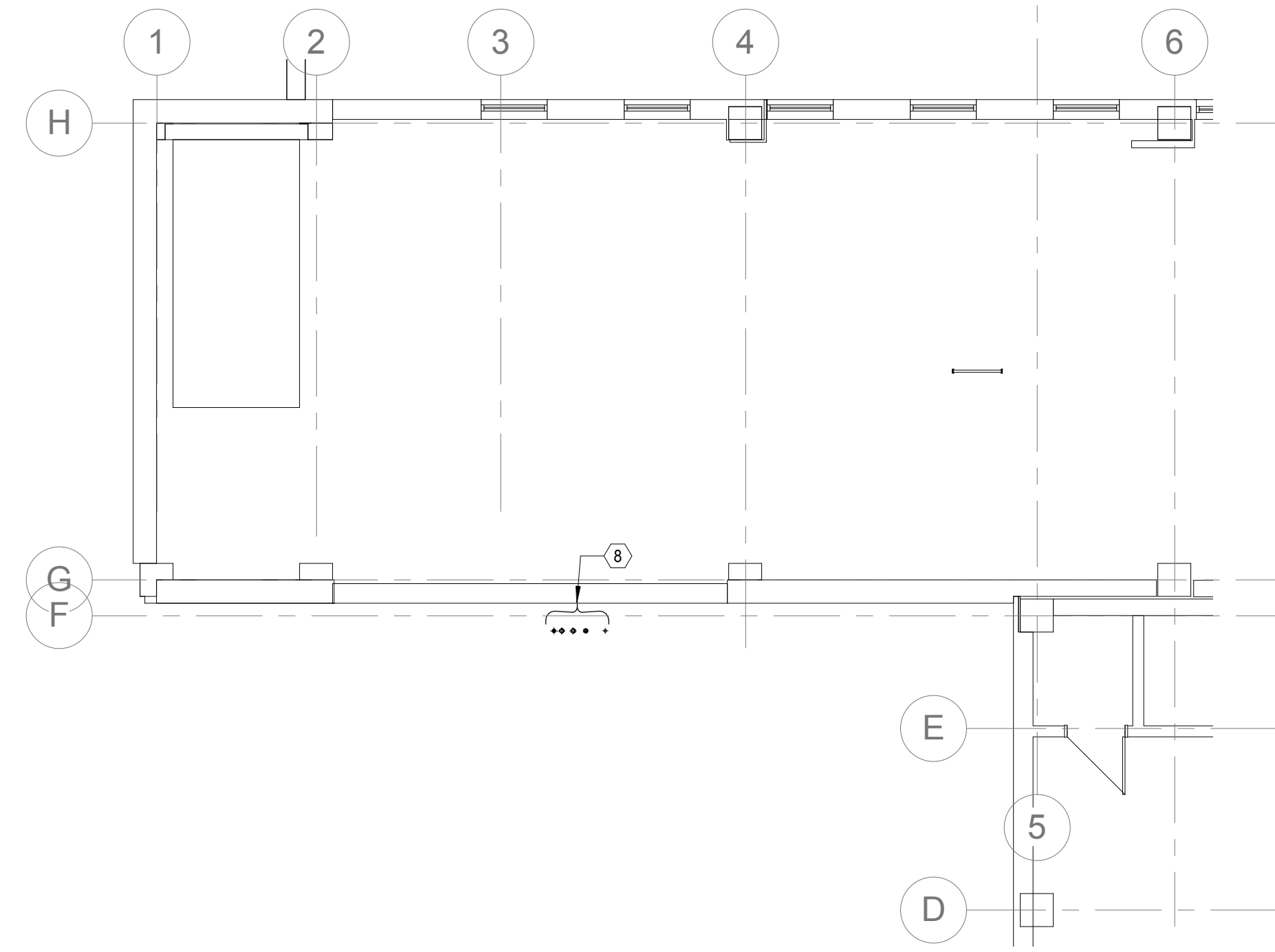
1 BASEMENT LEVEL - CONDUIT ROUTING PLAN
1/8" = 1'-0"



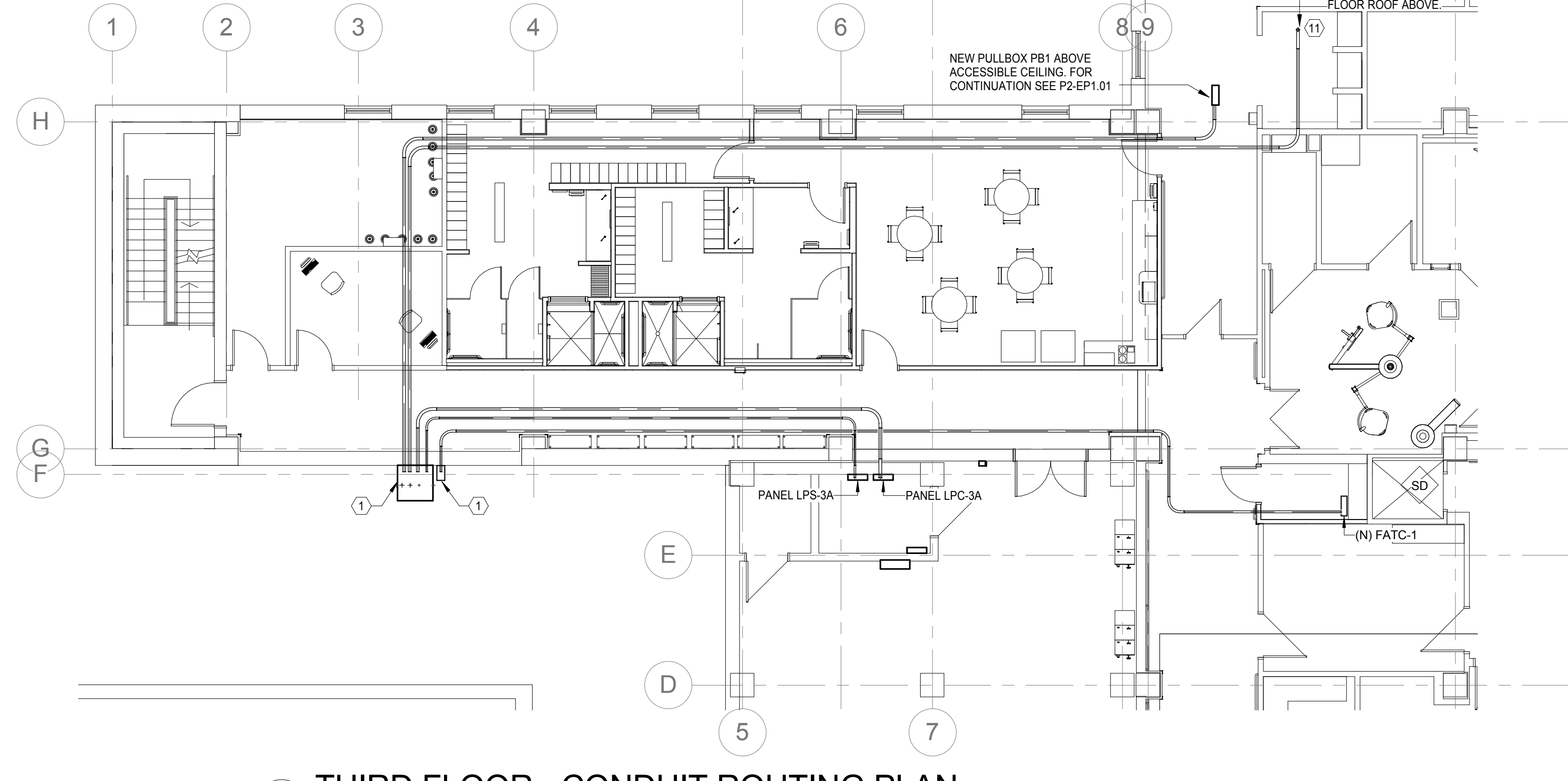
2 GROUND FLOOR - CONDUIT ROUTING PLAN
1/8" = 1'-0"



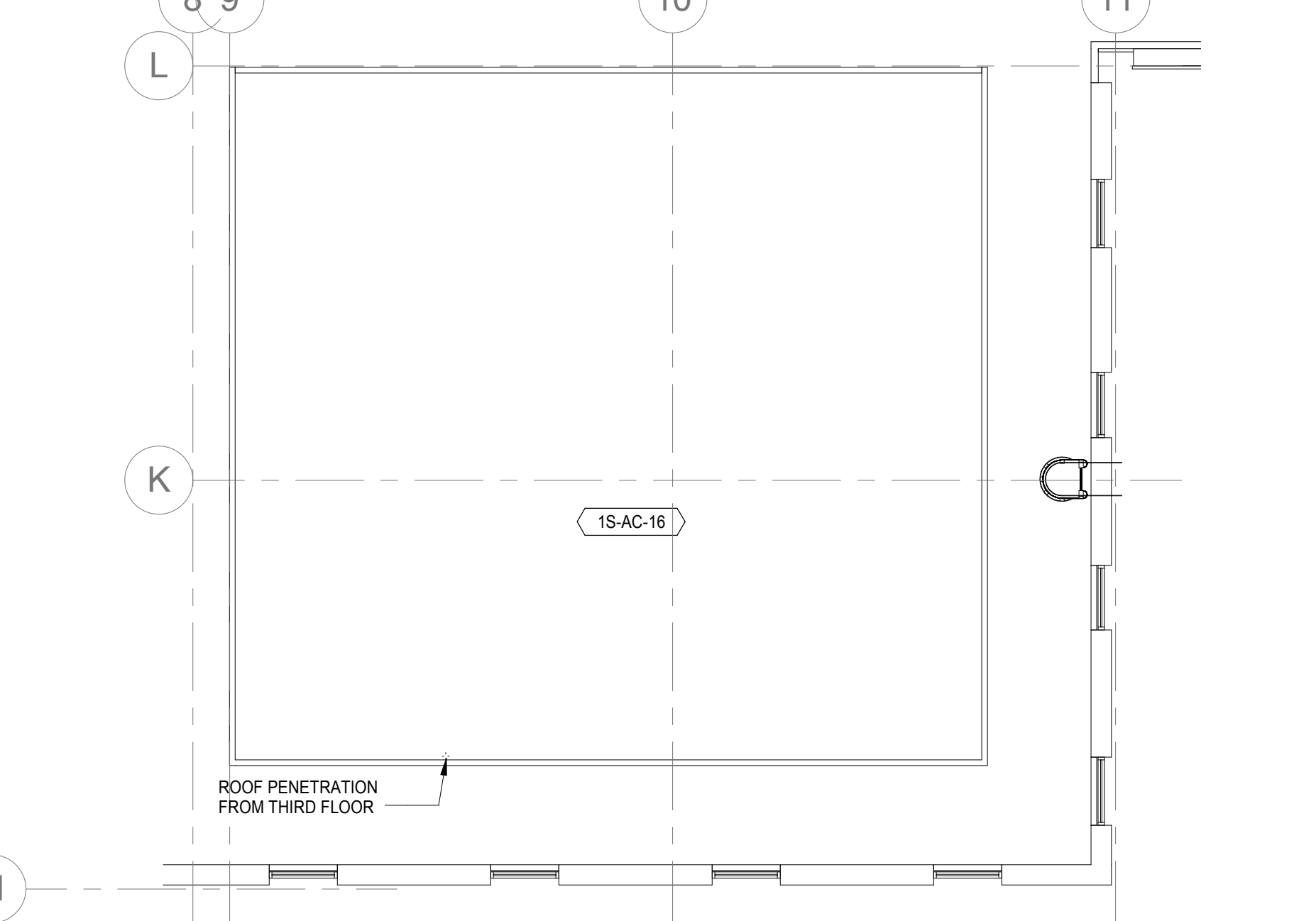
3 FIRST FLOOR - CONDUIT ROUTING PLAN
1/8" = 1'-0"



4 SECOND FLOOR - CONDUIT ROUTING PLAN
1/8" = 1'-0"



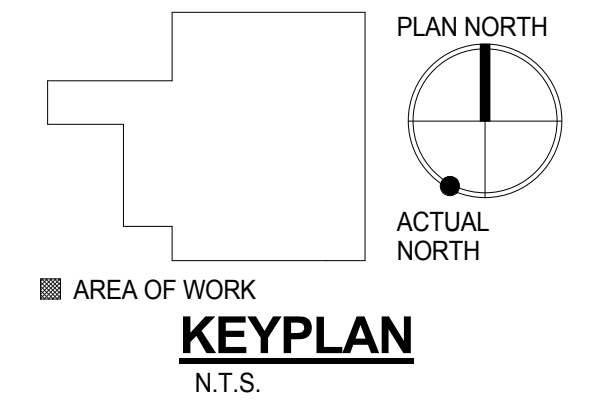
5 THIRD FLOOR - CONDUIT ROUTING PLAN
1/8" = 1'-0"



6 THIRD FLOOR ROOF - CONDUIT ROUTING PLAN
1/8" = 1'-0"

GENERAL NOTES

- SEE E0.01 AND E0.02 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
 - SEE ELECTRICAL SINGLE LINE DIAGRAMS ON DRAWING E6.01 AND E6.02 FOR CONDUIT SIZES.
 - ALL NEW WORK TO BE COMPLETED IN PHASE 1, U.O.N.
 - ELECTRICAL CONTRACTOR SHALL JACK OUT ALL CONCRETE REQUIRED FROM GROUND FLOOR COURTYARD AREA TO COMPLETE INSTALLATION. ELECTRICAL CONTRACTOR SHALL RETURN THE COURTYARD TO ITS ORIGINAL CONDITION AFTER CONSTRUCTION IS COMPLETED, INCLUDING, BUT NOT LIMITED TO, POURING NEW CONCRETE WHERE REQUIRED.
- SHEET KEYNOTES**
- NEW WEATHERPROOF PULLBOX MOUNTED ABOVE ACCESSIBLE THIRD FLOOR CEILING ELEVATION. PROVIDE SLEEVE SEALS FOR ALL PENETRATIONS TO ENSURE PROPER SEPARATION BETWEEN INTERIOR AND EXTERIOR ENVIRONMENTS.
 - NEW WEATHERPROOF PULLBOX BELOW GRADE.
 - CONDUITS EXIT SIDE OF PULLBOX AND TURN UP SIDE OF BUILDING.
 - NEW PULLBOX - PROVIDE SLEEVE SEALS FOR ALL PENETRATIONS TO ENSURE PROPER SEPARATION BETWEEN INTERIOR AND EXTERIOR ENVIRONMENTS.
 - PROVIDE NEW CORE THROUGH EXISTING SHEAR WALL FOR EACH CONDUIT. RACK CONDUITS AS HIGH AS POSSIBLE.
 - CONDUITS EXIT SIDE OF INTERIOR PULLBOX. EXIT BUILDING THROUGH SLEEVE SEALS AND TURN UP TO GRADE LEVEL PULLBOX AS SHOWN ON DETAIL 2/E1.01.
 - RELOCATE EXISTING LIGHT FIXTURES BELOW NEW CONDUITS.
 - RACK AND SUPPORT CONDUIT TO BUILDING EVERY 10' VERTICAL FEET.
 - PROVIDE HORIZONTAL UNISTRUT UNDER CONDUIT AND PULLBOXES AT GRADE. SECURE RIGID STEEL CONDUIT TO UNISTRUT RACK.
 - ENSURE LOCATION OF PULLBOX AND CONDUITS DO NOT IN ANY WAY PROHIBIT ACCESS TO GROUND FLOOR DOORS OR ACCESS DOOR IN THIS PART OF THE COURTYARD.
 - COORDINATE FEEDER TERMINATION LOCATION WITH PEM MANUFACTURER AND DIV. 23 CONTRACTOR. FEEDER SHALL TERMINATE AT LOCATION OF PEM MAIN DISCONNECT SWITCH.



100% CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

CONSULTANTS:			ARCHITECT / ENGINEERS:			Drawing Title ELECTRICAL CONDUIT ROUTING PLAN			Project Title RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS			Office of Construction and Facilities Management		
MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER			PF&A PFAA DESIGN ARCHITECTURE, PLANNING, INTERIORS 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-6537 Fax: 757-471-6535 www.pfaa-architect.com			Approved: Medical Center Director			Location HUNTINGTON, WV			Date 10.31.2014		
THOMAS L. CHAPMAN ENGINEER NO. 10040101 EXPIRATION 12/31/2015			SDVOSB Small Business			Building Number 1S			Drawing Number E1.01			Checked MC		
NO. DESCRIPTION DATE			Dwg. 096 of 178			Drawn MR			Department of Veterans Affairs					

GENERAL NOTES

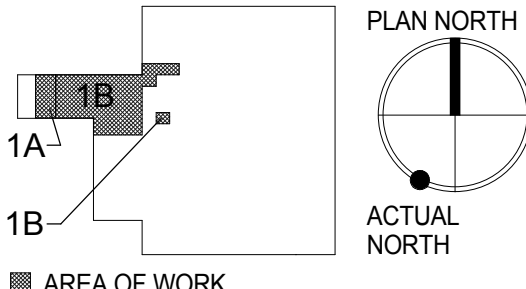
1. SEE E0.01 AND E0.02 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
2. ALL DEVICES SHOWN IN AREA OF WORK TO BE DEMOLISHED, U.O.N.

SHEET KEYNOTES

1. E.C. TO REMOVE AND STORE EXISTING WIRELESS ACCESS POINT. WIRELESS ACCESS POINT TO BE REINSTALLED IN SAME LOCATION.
2. PANEL RCP-3A AND FEEDER TO BE DEMOLISHED IN PHASE 4A. ALL REMAINING CIRCUITS CONNECTED TO THE PANEL SHALL BE SPICED AND EXTENDED TO THE NEW PANEL, RCP-3AY LOCATED IN THIS ELECTRICAL CLOSET PROVIDED IN AN EARLIER PHASE. SEE DRAWING E0.02 FOR FURTHER INFORMATION.
3. EXISTING FAN TO BE RELOCATED. SPLICE AND EXTEND ALL ASSOCIATED ELECTRICAL POWER AND CONTROLS WIRING AND DEVICES TO NEW FAN LOCATION.

1 PHASE 1A - 3RD FLOOR POWER AND SYSTEM DEMOLITION PLAN
1/4" = 1'-0"

2 PHASE 1B - 3RD FLOOR POWER AND SYSTEM DEMOLITION PLAN
1/4" = 1'-0"



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			CONSULTANTS:			ARCHITECT / ENGINEERS:			Drawing Title ELECTRICAL PHASE 1 - POWER AND SYSTEMS DEMOLITION PLAN			Project Title RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS			Project Number 581-13-101		Office of Construction and Facilities Management		
									Approved: Medical Center Director			Location HUNTINGTON, WV			Building Number 1S				
												Date 10.31.2014			Checked MC		Drawing Number P1-ED1.02		
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NO. DESCRIPTION DATE																			

GENERAL NOTES

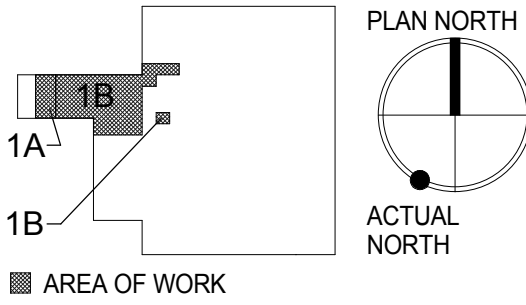
- SEE E0.01 AND E0.02 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
- ALL DEVICES SHOWN IN AREA OF WORK TO BE NEW, U.O.N.
- REFER TO LIGHTING SCHEDULE ON DWG. E6.05 FOR FURTHER INFORMATION ON ALL LIGHTING FIXTURES.
- SEE DWG. E5.04-E5.05 FOR LIGHTING CONTROL RISER DIAGRAM AND SWITCHING SCHEME.

SHEET KEYNOTES

- REWIRE LIGHT FIXTURE IN PHASE 1A TO EXISTING SWITCH IN THIS ROOM.
- MICRO RELAY PANEL LOCATED ABOVE ACCESSIBLE CEILING.





1 PHASE 1A - 3RD FLOOR LIGHTING NEW WORK PLAN
1/4" = 1'-0"

2 PHASE 1B - 3RD FLOOR LIGHTING NEW WORK PLAN
1/4" = 1'-0"



KEYPLAN
N.T.S.

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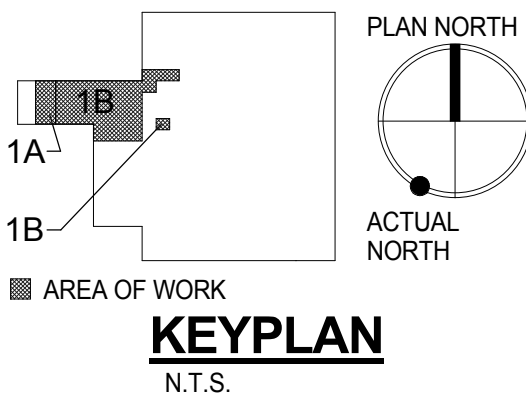
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							 Miller-Remick LLC M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5002				PF&A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-5537 Fax: 757-471-4225 www.pfa-architect.com		Approved: Medical Center Director				Location HUNTINGTON, WV		Building Number 1S	
NO. DESCRIPTION DATE											Drawing Number P1-EL-1.01						Dwg. 099 of 178			
											Date 10.31.2014		Checked MC				Drawn MR			

GENERAL NOTES




- SEE E0.01 AND E0.02 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
 - ALL DEVICES SHOWN IN AREA OF WORK TO BE NEW, U.O.N.
 - REFER TO DETAILS ON DRAWING E5.02 FOR FURTHER INFORMATION ON MOTORIZED AND CARD ACCESS DOOR REQUIREMENTS.
- SHEET KEYNOTES**
- PANEL RCP-3A AND FEEDER TO BE DEMOLISHED IN PHASE 4A. ALL REMAINING CIRCUITS CONNECTED TO THE PANEL SHALL BE SPICED AND EXTENDED TO THE NEW PANEL RCP-3A1 LOCATED IN THIS ELECTRICAL CLOSET PROVIDED IN AN EARLIER PHASE. SEE DRAWING E6.02 FOR FURTHER INFORMATION.
 - HANG NEW XFMR FROM CEILING ABOVE (E) LIGHT FIXTURES. PROVIDE ALL SUPPORTS AS REQUIRED.
 - RELOCATED FAN. SPICE AND EXTEND ALL ASSOCIATED ELECTRICAL POWER AND CONTROLS WIRING AND DEVICES TO NEW FAN LOCATIONS.

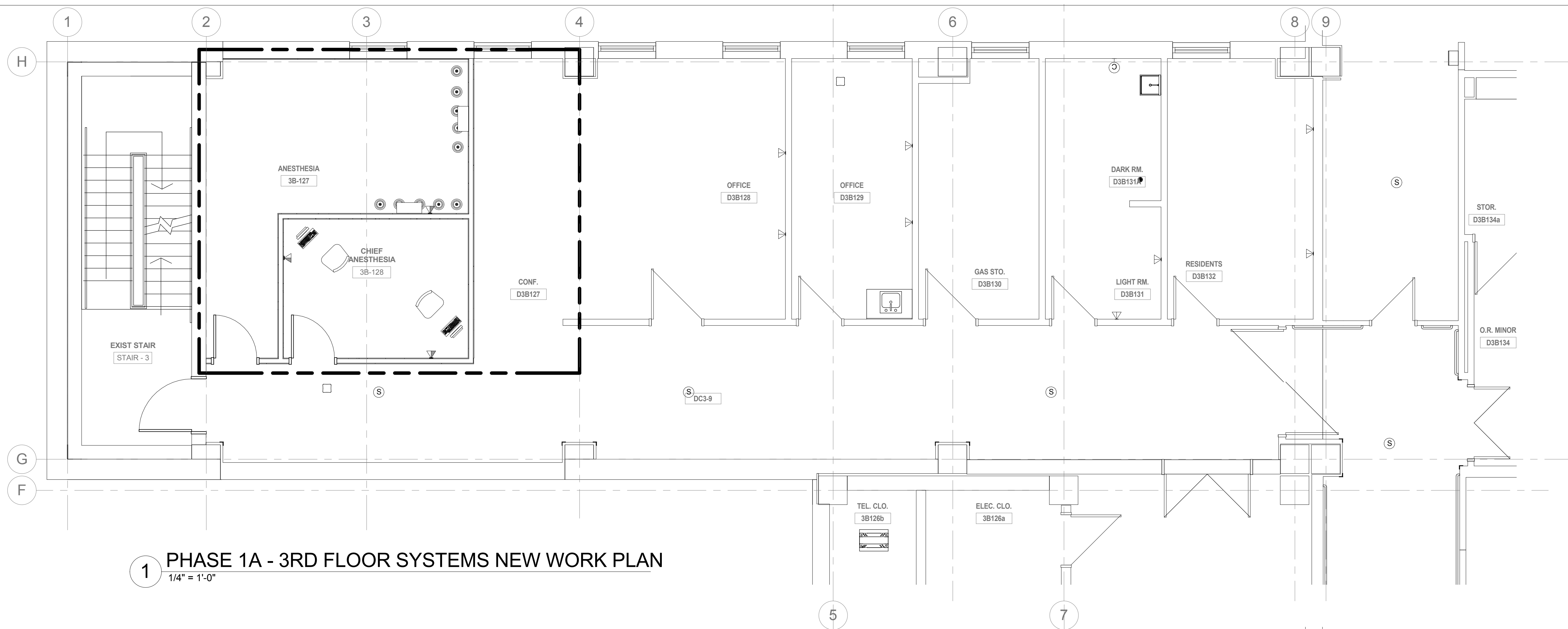
1 PHASE 1A - 3RD FLOOR POWER NEW WORK PLAN
1/4" = 1'-0"

2 PHASE 1B - 3RD FLOOR POWER NEW WORK PLAN
1/4" = 1'-0"

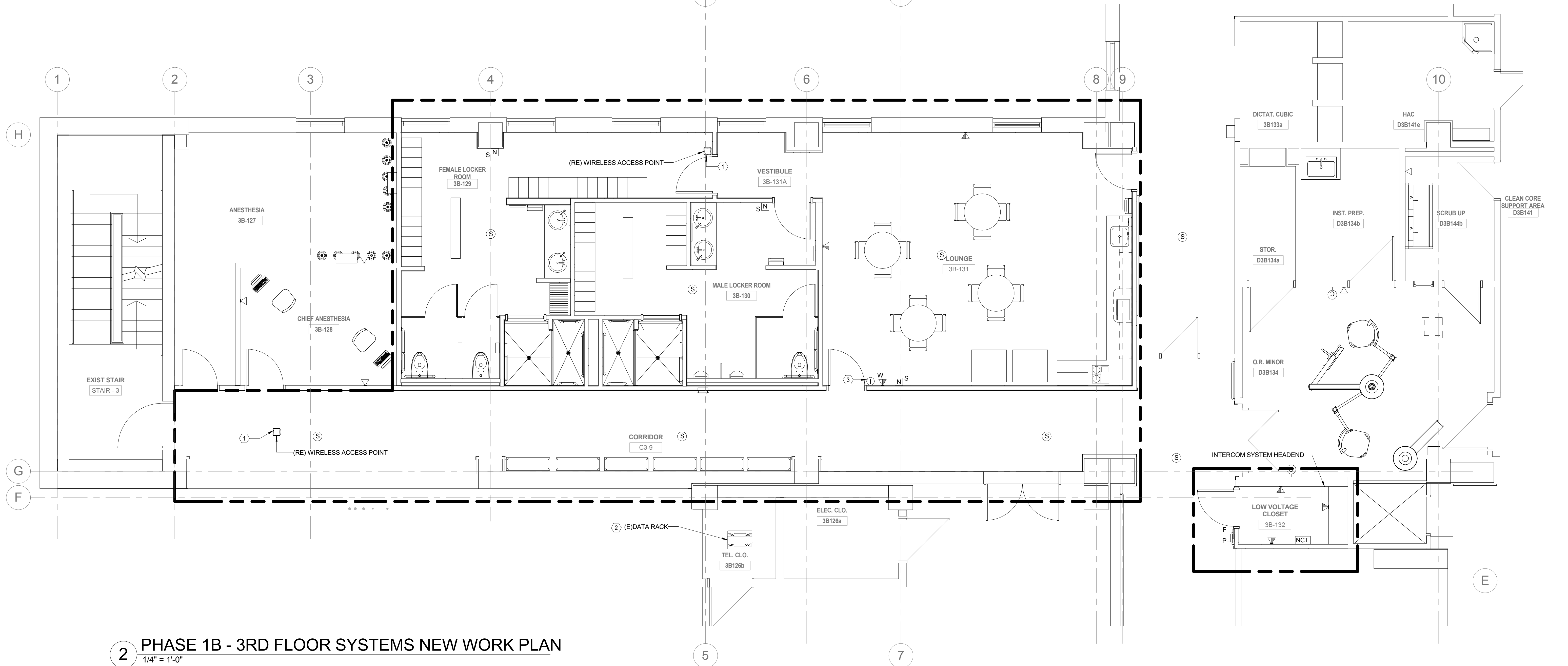


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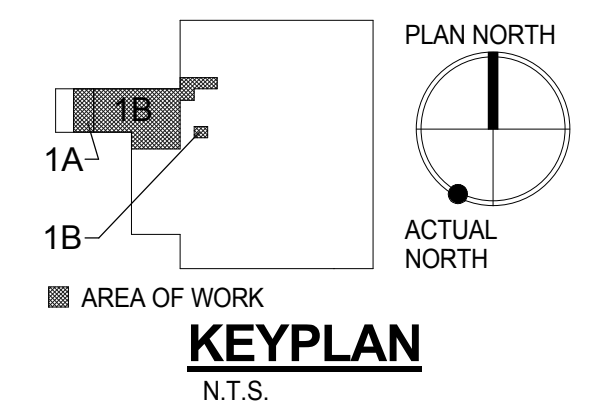
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									Approved: Medical Center Director			Location HUNTINGTON, WV			Building Number 1S					
												Date 10.31.2014			Checked MC					
												Drawn MR			Drawing Number P1-EP1.01					
															Dwg. 100 of 178					
NO. DESCRIPTION DATE			MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER 			 Miller-Remick LLC M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5002			 PF&A PF&A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-0537 Fax: 757-471-4235 www.pfa-architect.com											



1 PHASE 1A - 3RD FLOOR SYSTEMS NEW WORK PLAN
1/4" = 1'-0"



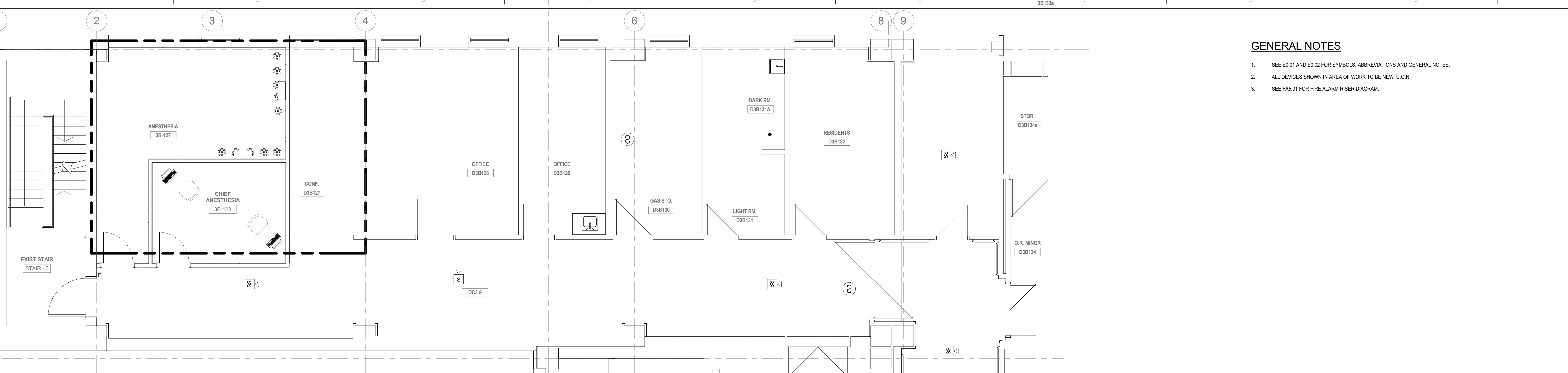
2 PHASE 1B - 3RD FLOOR SYSTEMS NEW WORK PLAN
1/4" = 1'-0"



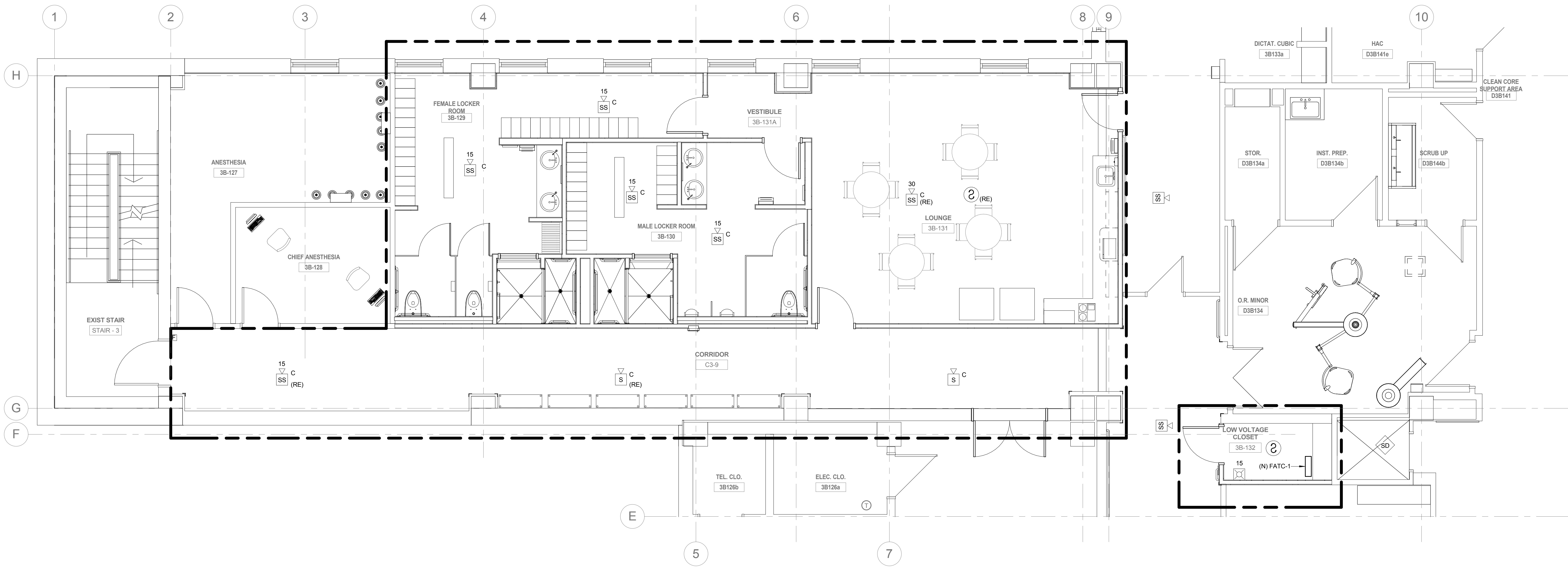
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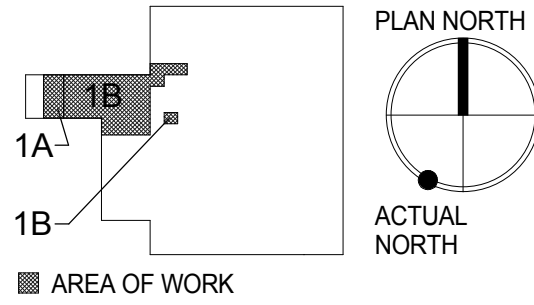
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



1 PHASE 1A - 3RD FLOOR FIRE ALARM NEW WORK PLAN
1/4" = 1'-0"



2 PHASE 1B - 3RD FLOOR FIRE ALARM NEW WORK PLAN
1/4" = 1'-0"



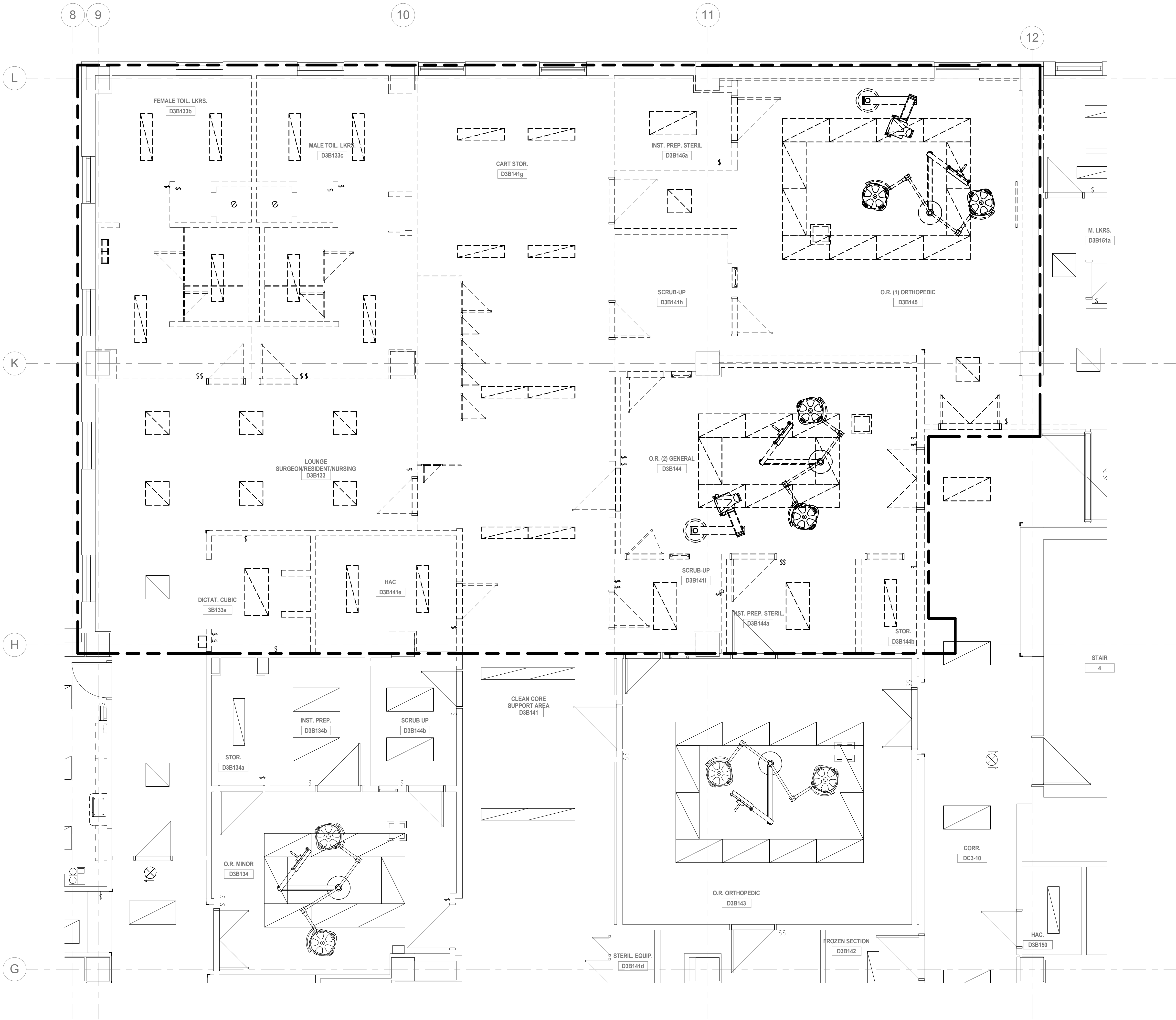
KEYPLAN
N.T.S.

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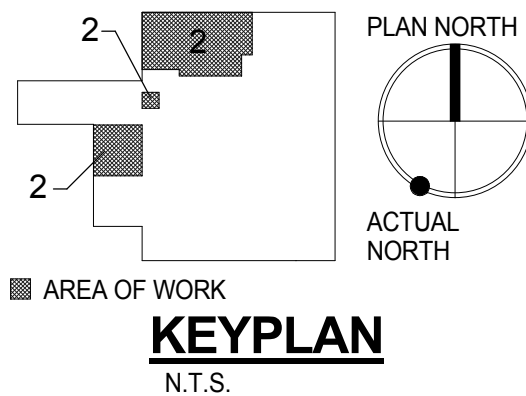
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									Approved: Medical Center Director			Location HUNTINGTON, WV			Building Number 1S			
NO. DESCRIPTION DATE																		

GENERAL NOTES





1. SEE E0.01 AND E0.02 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
2. ALL DEVICES SHOWN IN AREA OF WORK TO BE DEMOLISHED, U.O.N.

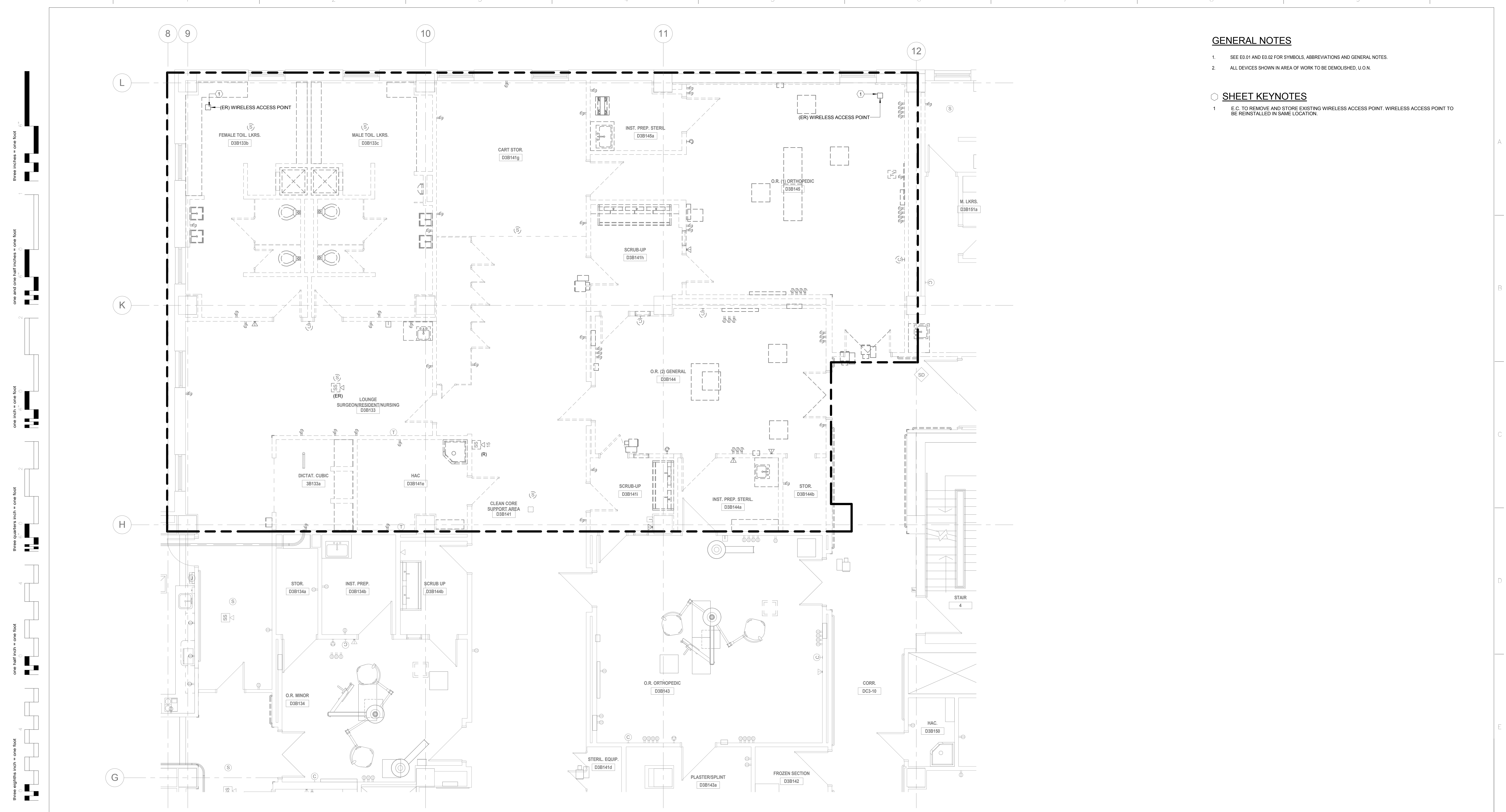


1 PHASE 2 - 3RD FLOOR LIGHTING DEMOLITION PLAN
1/4" = 1'-0"



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			CONSULTANTS:			ARCHITECT / ENGINEERS:			Drawing Title ELECTRICAL PHASE 2 - LIGHTING DEMOLITION PLAN			Project Title RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS			Project Number 581-13-101		Office of Construction and Facilities Management Department of Veterans Affairs						
									Approved: Medical Center Director			Location HUNTINGTON, WV			Building Number 1S								
												Date 10.31.2014			Checked MC								
												Drawn MR			Drawing Number P2-ED1.01								
															Dwg. 103 of 178								
NO. DESCRIPTION DATE			MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER						 Miller-Remick LLC M.E.P. & Structural Engineers A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5002			 Small Business Disadvantaged Veteran Owned Service Disabled Veteran Owned Small Business			 PF&A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-0537 Fax: 757-471-4235 www.pfa-architect.com								



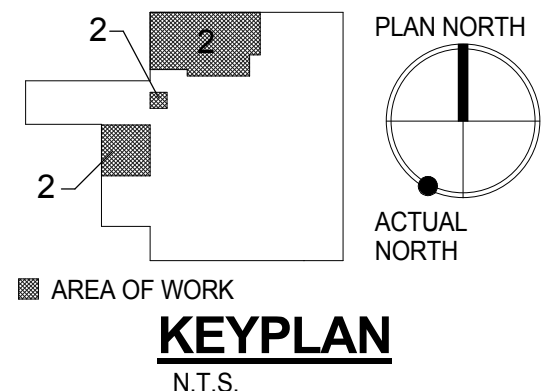
GENERAL NOTES

- 1. SEE E0.01 AND E0.02 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
- 2. ALL DEVICES SHOWN IN AREA OF WORK TO BE DEMOLISHED, U.O.N.






SHEET KEYNOTES

- 1. E.C. TO REMOVE AND STORE EXISTING WIRELESS ACCESS POINT. WIRELESS ACCESS POINT TO BE REINSTALLED IN SAME LOCATION.

1 PHASE 2 - 3RD FLOOR POWER AND SYSTEM DEMOLITION PLAN
1/4" = 1'-0"



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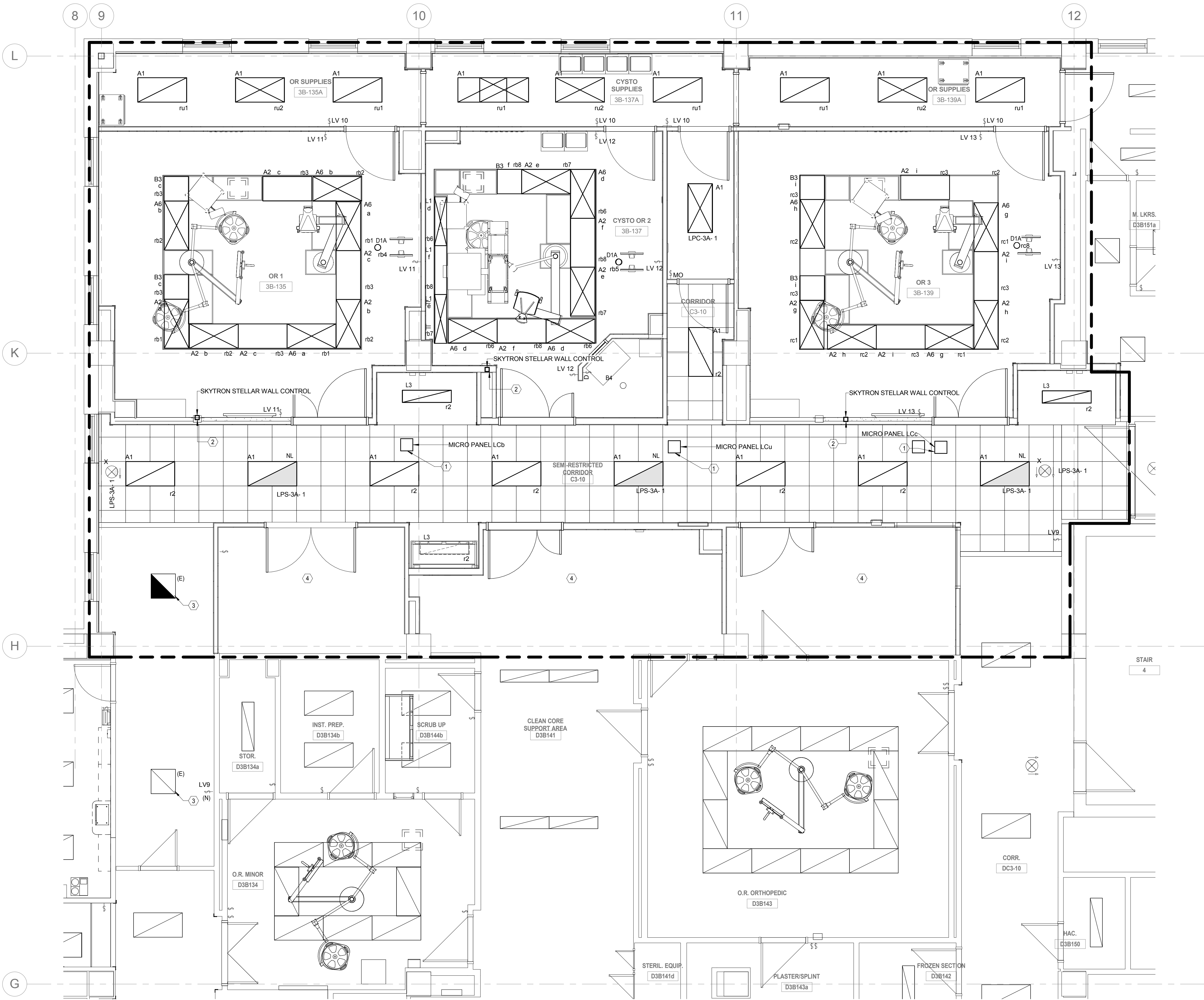
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									 Miller-Remick LLC M.E.P. & Structural Engineering A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5002						 PF&A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-0537 Fax: 757-471-4005 www.pfs-architect.com			Approved: Medical Center Director						Location HUNTINGTON, WV			Building Number 1S		
NO. DESCRIPTION DATE												Date 10.31.2014			Checked MC			Drawn MR						Drawing Number P2-ED1.02					
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GENERAL NOTES

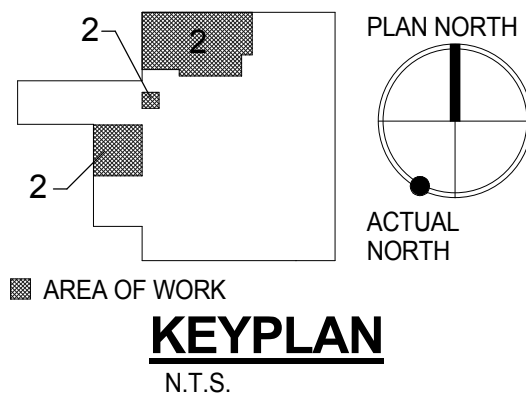
- SEE E0.01 AND E0.02 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
- ALL DEVICES SHOWN IN AREA OF WORK TO BE NEW, U.O.N.
- REFER TO LIGHTING FIXTURE SCHEDULE ON DWG. E6.05 FOR FURTHER INFORMATION ON ALL LIGHTING FIXTURES.
- SEE DWG. E5.04-E5.05 FOR LIGHTING CONTROL RISER DIAGRAM AND SWITCHING SCHEME.

SHEET KEYNOTES

- MICRO RELAY PANEL LOCATED ABOVE ACCESSIBLE CEILING.
- SKYTRON STELLAR WALL CONTROL RECESSED MOUNTED UNIT. REFER TO DETAIL 3/E5.06 FOR WIRING AND CONNECTIONS.
- REWIRE EXISTING LIGHTING FIXTURE TO NEW CORRIDOR LIGHTING CIRCUIT AND SWITCHING.
- PROVIDE TEMPORARY LIGHTING IN THIS AREA UNTIL PHASE 4. CIRCUIT TO NORMAL POWER.



1 PHASE 2 - 3RD FLOOR LIGHTING NEW WORK PLAN
1/4" = 1'-0"

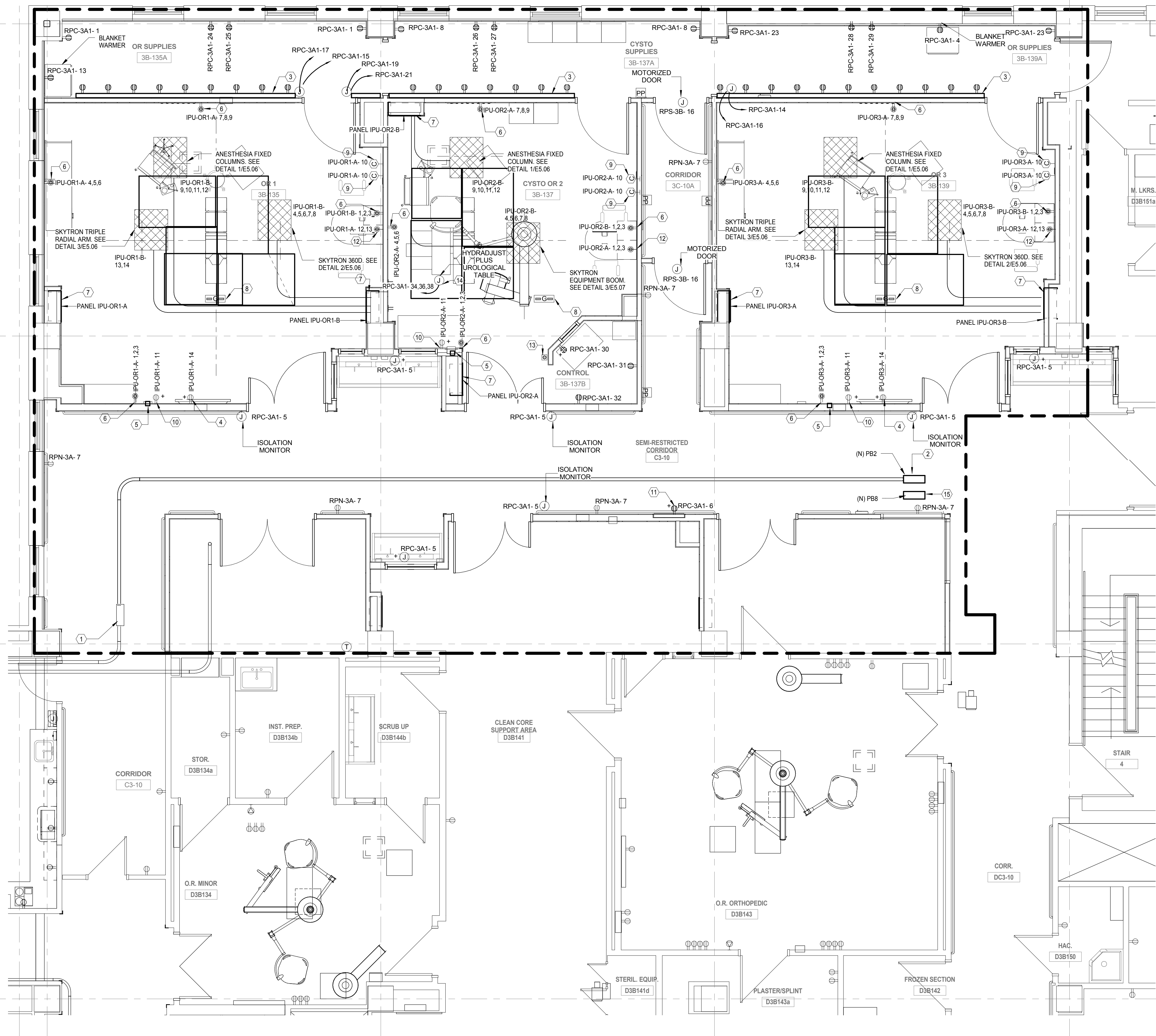


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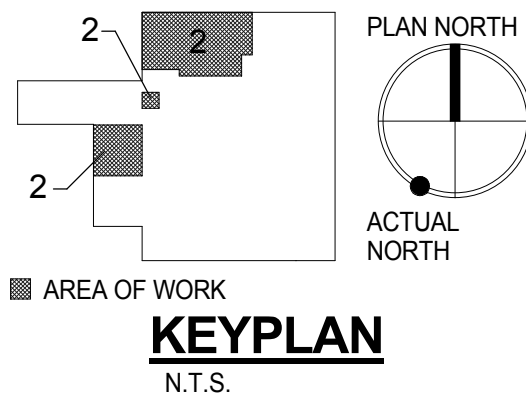
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									Approved: Medical Center Director			Location HUNTINGTON, WV			Building Number 1S							
												Date 10.31.2014			Checked MC		Drawn MR		Drawing Number P2-EL.1.01		Dwg. 105 of 178	

GENERAL NOTES

- SEE E0.01 AND E0.02 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
 - ALL DEVICES SHOWN IN AREA OF WORK TO BE NEW, U.O.N.
 - REFER TO DETAILS ON DRAWING E5.02 FOR FURTHER INFORMATION ON MOTORIZED AND CARD ACCESS DOOR REQUIREMENTS.
 - ALL OPERATING ROOM DEVICES TO BE COORDINATED WITH DETAILS AND ARCHITECTURAL ELEVATIONS.
- SHEET KEYNOTES**
- (E)PULLBOX PB1 INSTALLED IN PHASE 1. SEE E1.01 FOR FURTHER INFORMATION.
 - PROVIDE AND INSTALL (N)PULLBOX PB2 ABOVE NEAREST ACCESSIBLE CEILING. SEE DRAWING P3-EP1.01 FOR CONTINUATION.
 - PROVIDE SURFACE MOUNTED DUAL CHANNEL METALLIC RACEWAY, MOUNTED 42" AFF. ALTERNATE DEVICE WIRING TO THE INDICATED CIRCUITS.
 - PROVIDE POWER CONNECTION MOUNTED 5' A.F.F. FOR FLAT SCREEN MONITOR.
 - SKYTRON STELLAR WALL CONTROL RECESSED MOUNTED UNIT. REFER TO DETAIL 3/E5.06 FOR WIRING AND CONNECTIONS.
 - POWER GROUND MODULE. REFER TO DETAIL 4/E5.06 FOR BACK BOX CONFIGURATION AND MOUNTING HEIGHT.
 - ISOLATION PANEL WITH MONITOR. REFER TO DRAWING E5.08.
 - GROUND REFERENCE POINT. REFER TO DETAIL 2/E5.07.
 - MCT128 DIGITAL TIME CLOCK AND ELAPSED TIMER. DISPLAY REMOTELY CONTROLLED BY MCTCT WITH 2-GANG BACKBOX AND BATTERY PACK. CONTRACTOR TO RELOCATE AND RE-USE EXISTING DIGITAL CLOCKS.
 - DEDICATED DUPLEX RECEPTACLE FOR LASER EQUIPMENT MOUNTED 42" A.F.F.
 - FILM ILLUMINATOR COORDINATE FINAL LOCATION WITH ARCHITECTURAL PLANS.
 - POWER GROUND MODULE FOR SKYTRON TOUCHSCREEN CONTROL. REFER TO DETAIL 4B/E5.06 FOR BACK BOX CONFIGURATION AND MOUNTING HEIGHT.
 - EMERGENCY POWER OFF BUTTON FOR HYDRADJUST PLUS UROLOGICAL TABLE.
 - PROVIDE 3/4" LIQUID-TIGHT FLEXIBLE NON METAL CONDUIT TO HYDRADJUST PLUS UROLOGICAL TABLE.
 - PROVIDE AND INSTALL (N) PULLBOX PB8 ABOVE NEAREST ACCESSIBLE CEILING. SEE DRAWING E5.09 FOR FURTHER INFORMATION.



1 PHASE 2 - 3RD FLOOR POWER NEW WORK PLAN
1/4" = 1'-0"



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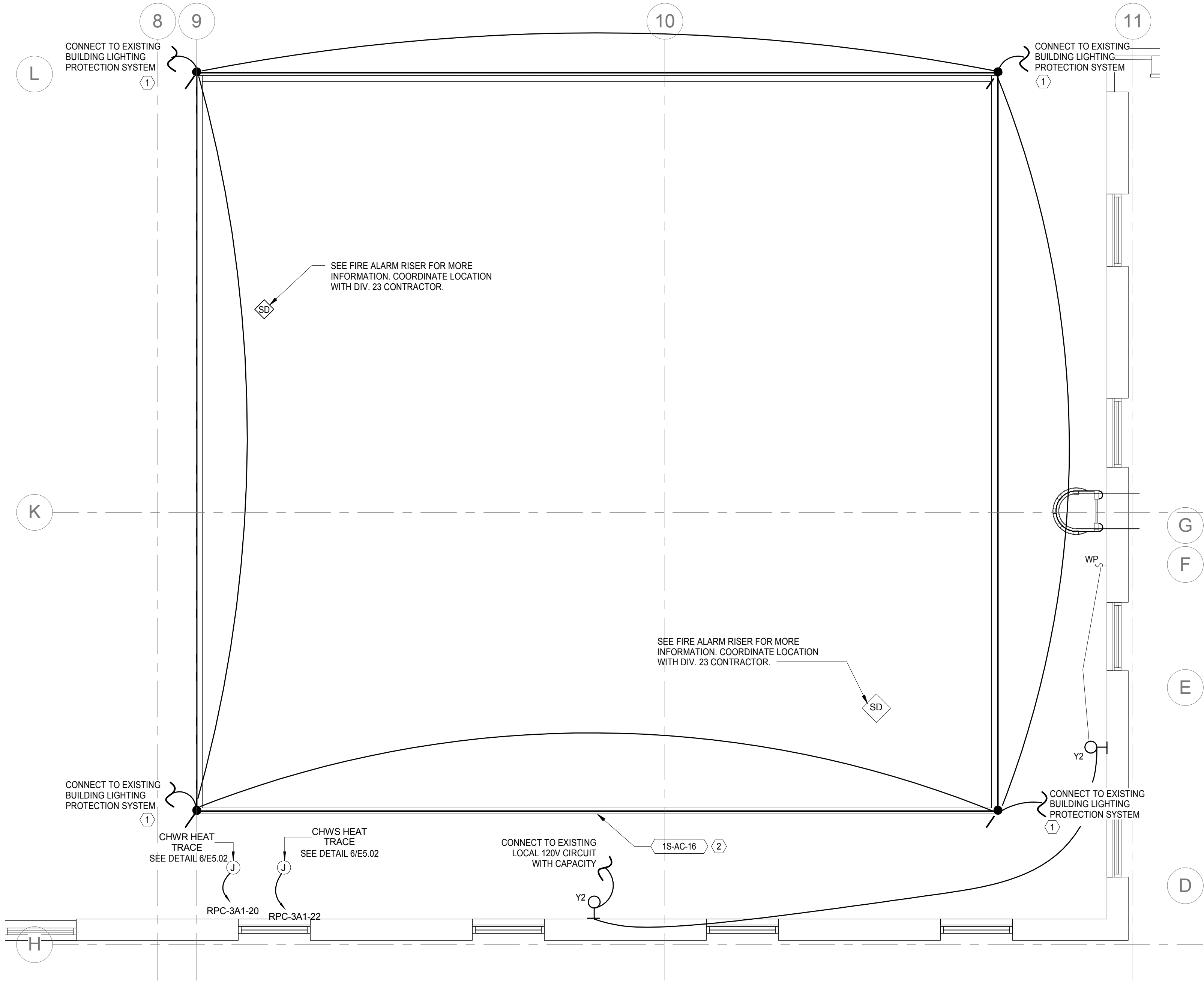
			CONSULTANTS:			<div><div>MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER</div><div></div></div>		
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GENERAL NOTES

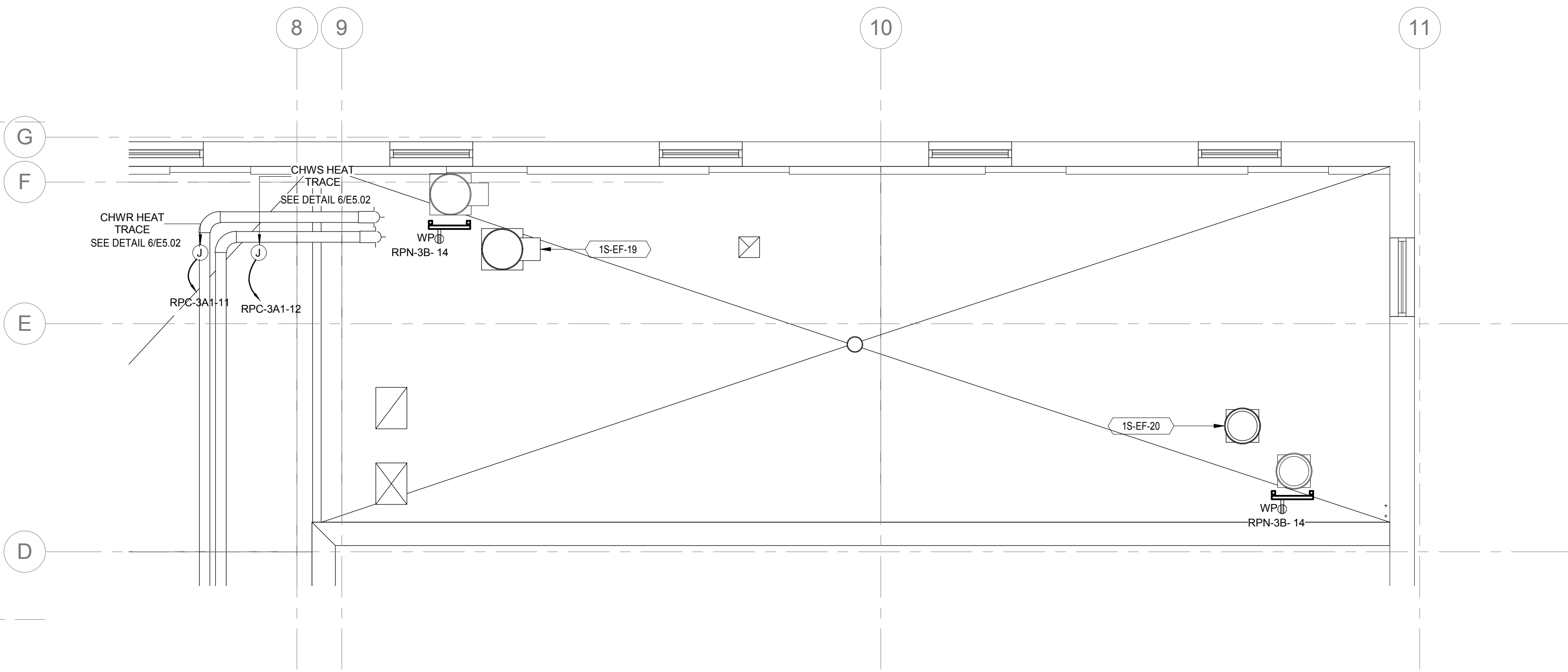
1. SEE E0.01 AND E0.02 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
2. ALL DEVICES SHOWN IN AREA OF WORK TO BE NEW, U.O.N.
3. REFER TO ELECTRICAL CONNECTION SCHEDULE ON E6.03 FOR FURTHER INFORMATION ON MECHANICAL EQUIPMENT.

SHEET KEYNOTES

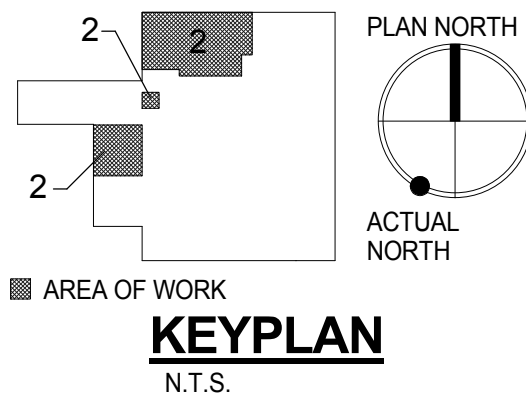
1. MATCH EXISTING LIGHTNING PROTECTION GROUND WIRE SIZE, E.C. TO COORDINATE LOCATION AND INSTALLATION METHOD OF LIGHTNING PROTECTION SYSTEM WITH THE MECHANICAL EQUIPMENT MANUFACTURER TO MAINTAIN INTEGRITY OF EQUIPMENT STRUCTURE AND WEATHERPROOFING CHARACTERISTICS.
2. E.C. SHALL COORDINATE LOCATION OF PEM ELECTRICAL CONNECTION POINT WITH DIVISION 23 EQUIPMENT MANUFACTURER PRIOR TO ROUGHING IN FEEDER CONDUIT. TERMINATE CONDUIT AT DIVISION 23 EQUIPMENT MANUFACTURER ELECTRICAL CONNECTION POINT AND LAND FEEDER CABLES AS REQUIRED.



1 PHASE 2 - 3RD FLOOR ROOF POWER NEW WORK PLAN
1/4" = 1'-0"



2 PHASE 2 - 3RD FLOOR ROOF POWER NEW WORK PLAN
1/4" = 1'-0"



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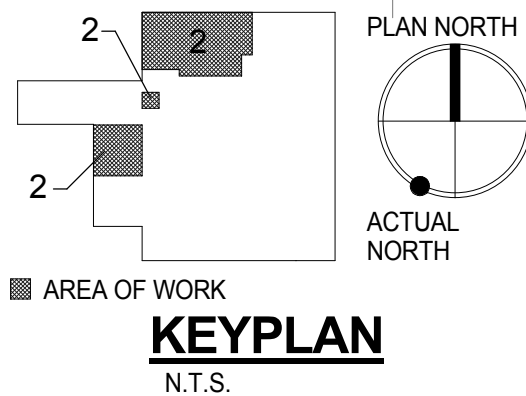
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									Approved: Medical Center Director			Location HUNTINGTON, WV			Building Number 1S			
												Date 10.31.2014			Checked MC		Drawing Number P2-EP1.02	
																	Dwg. 107 of 178	
NO. DESCRIPTION DATE																	Department of Veterans Affairs	

GENERAL NOTES

- SEE E0.01 AND E0.02 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
 - ALL DEVICES SHOWN IN AREA OF WORK TO BE NEW, U.O.N.
 - ALL TELE/DATA DEVICES SHALL BE PULLED BACK TO (E)DATA RACK IN MECHANICAL ROOM. SEE DWG. P1-EY1.01 FOR LOCATION OF (E)DATA RACK.
 - REFER TO DETAILS ON DRAWING E5.02 FOR FURTHER INFORMATION ON MOTORIZED AND CARD ACCESS DOOR REQUIREMENTS.
 - IN ADDITION TO ALL RELOCATED WIRELESS ACCESS POINTS (WAPs) SHOWN ON THIS PLAN, ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL WAPs, AS REQUIRED, TO PROVIDE A 100% DATA COVERAGE IN THE SCOPE OF WORK. SEE GENERAL ELECTRICAL NOTES 55 AND 56 ON DRAWING E0.02 FOR FURTHER INFORMATION ON COVERAGE REQUIREMENTS.
 - ALL OPERATING ROOM DEVICES TO BE COORDINATED WITH DETAILS AND ARCHITECTURAL ELEVATIONS.
- SHEET KEYNOTES**
- WIRELESS ACCESS POINT TO BE REINSTALLED IN SAME LOCATION.
 - PROVIDE 3" CONDUIT WITH BUSHED ENDS AND PULLSTRING ABOVE ACCESSIBLE CEILING. FIRE SEAL OPENING AS REQUIRED.
 - PROVIDE POWER CONNECTION MOUNTED 5' A.F.F. FOR FLAT SCREEN MONITOR.
 - PROVIDE (1) STENTOPON OR EQUAL OPERATING ROOM INTERCOM STATION WITH ALUMINUM FRONT PLATE AND DISPLAY SCREEN FOR INTERCOMMUNICATION BETWEEN ORs. REFER TO DRAWING 1E5.07.
 - E.C. TO COORDINATE LOCATION AND WIRING REQUIREMENTS WITH MECHANICAL EQUIPMENT MANUFACTURER.
 - TELE/DATA DEVICES TO BE MOUNTED 42" A.F.F.
 - MCT128 DIGITAL TIME CLOCK AND ELAPSED TIMER. DISPLAY REMOTELY CONTROLLED BY MCTCT WITH 2-GANG BACKBOX AND BATTERY PACK. PROVIDE DATA CONNECTION TO NEAREST TELECOMM CLOSET/IT RACK.
 - DATA DROPS FOR SKYTRON INTEGRATION CABINET. REFER TO DRAWING E5.10 FOR MORE FURTHER INFORMATION.
 - DATA DROP FOR SKYTRON TOUCHSCREEN CONTROL. REFER TO DRAWING E5.10 FOR MORE FURTHER INFORMATION.

1 PHASE 2 - 3RD FLOOR SYSTEMS NEW WORK PLAN
1/4" = 1'-0"

2 PHASE 2 - 3RD FLOOR ROOF SYSTEMS NEW WORK PLAN
1/4" = 1'-0"

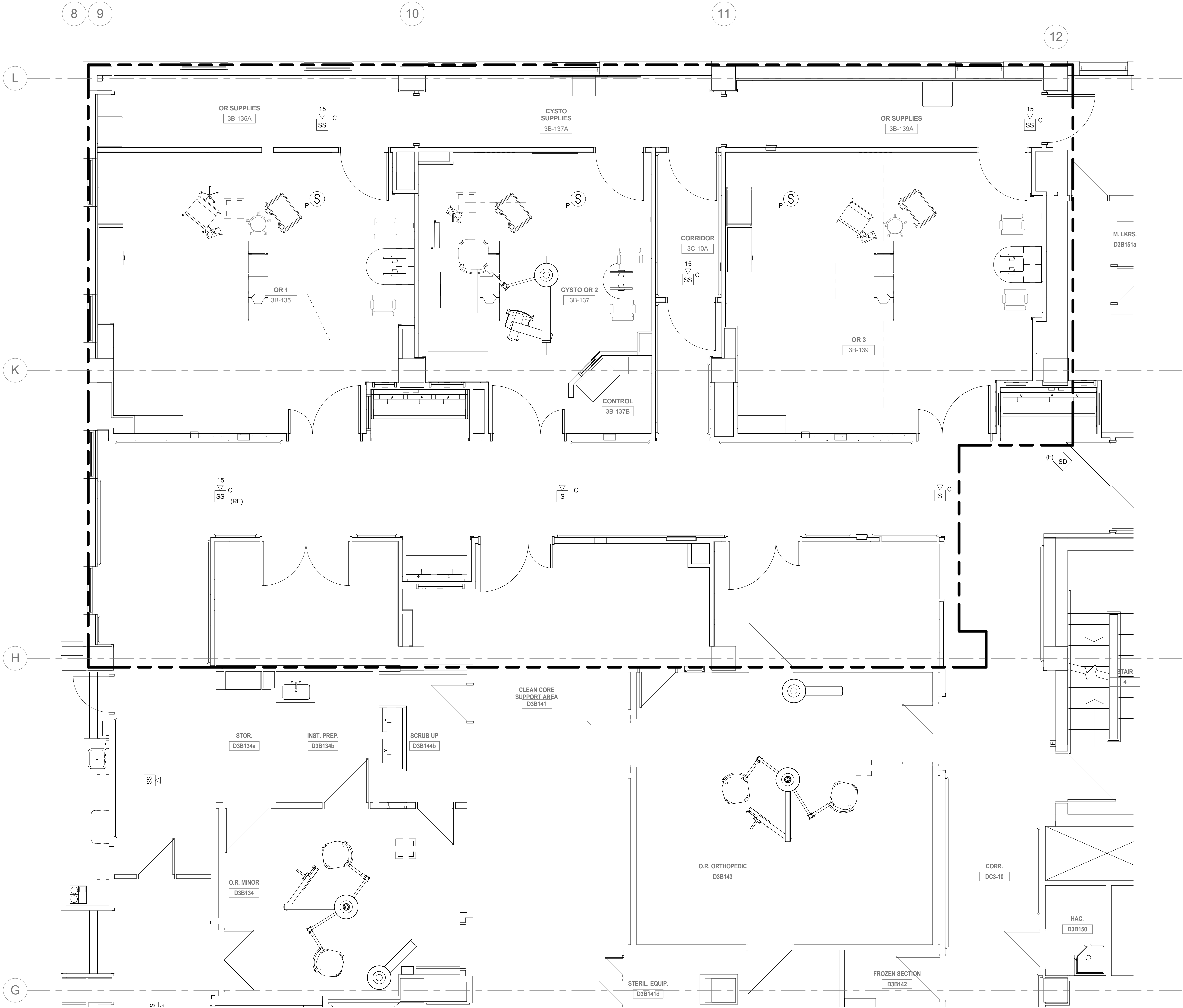


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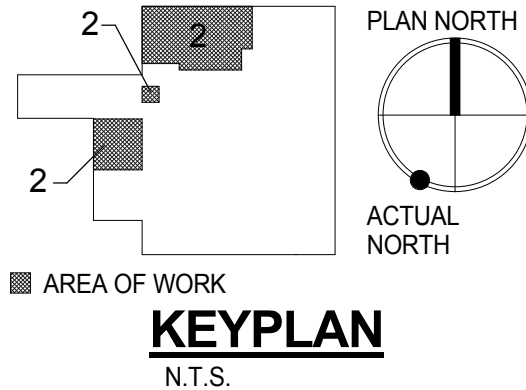
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MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER			PF&A M.E.P. & Structural Engineering 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-6537 Fax: 757-471-6535 www.pfa-architect.com			Project Number 581-13-101			Location HUNTINGTON, WV			Building Number 1S		
THOMAS L. CHAPMAN ENGINEER NO. 134443010 EXPIRATION DATE 12/31/2014			1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5002			Approved: Medical Center Director			Date 10.31.2014			Checked MC		
NO. DESCRIPTION DATE			SDVOSB			Drawn MR			Drawing Number P2-EY1.01			Dwg. 108 of 178		
VA FORM 08-6231			Department of Veterans Affairs											

GENERAL NOTES



- SEE E0.01 AND E0.02 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
- ALL DEVICES SHOWN IN AREA OF WORK TO BE NEW, U.O.N..
- SEE FA5.01 FOR FIRE ALARM RISER DIAGRAM.



1 PHASE 2 - 3RD FLOOR FIRE ALARM NEW WORK PLAN
1/4" = 1'-0"

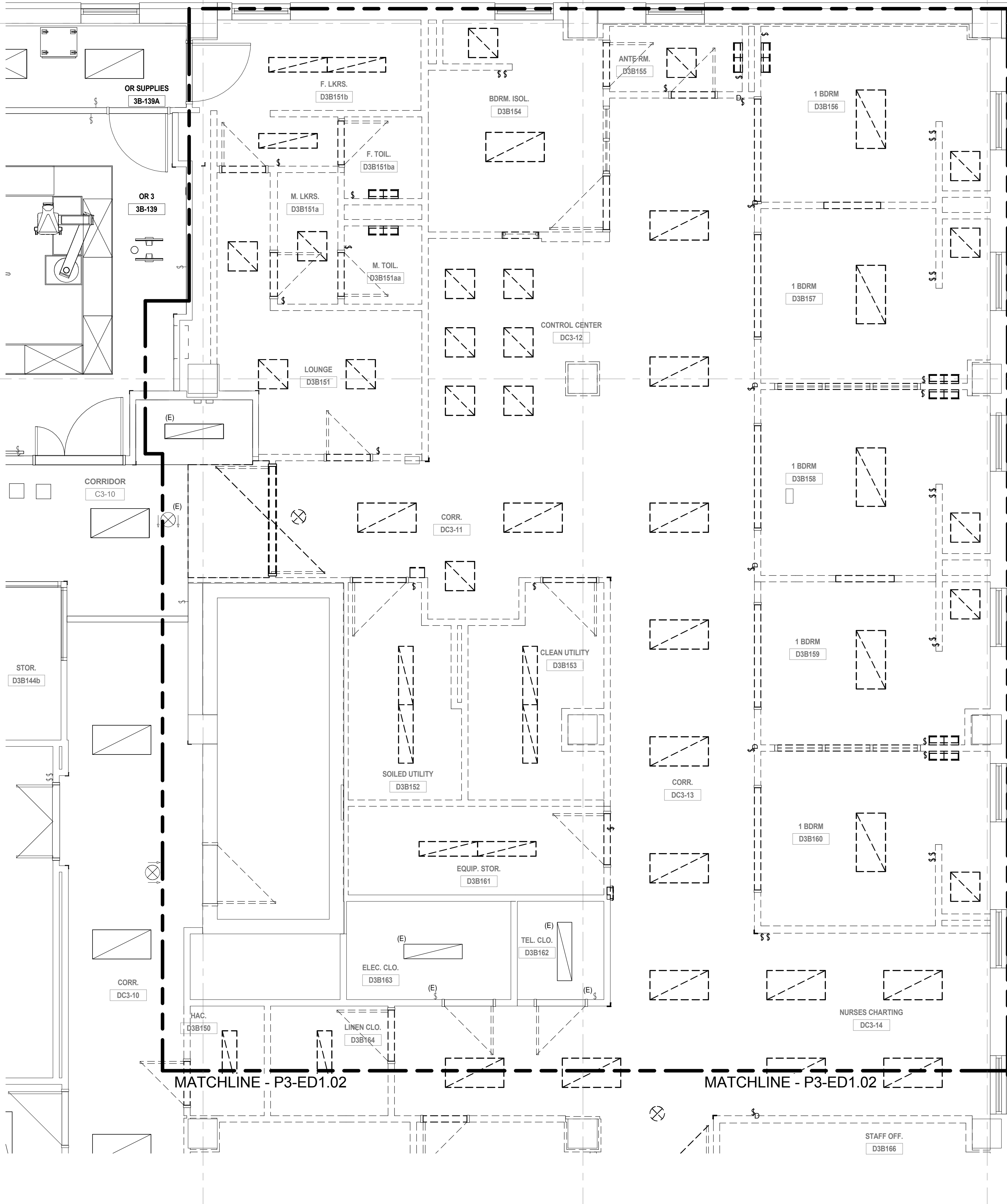


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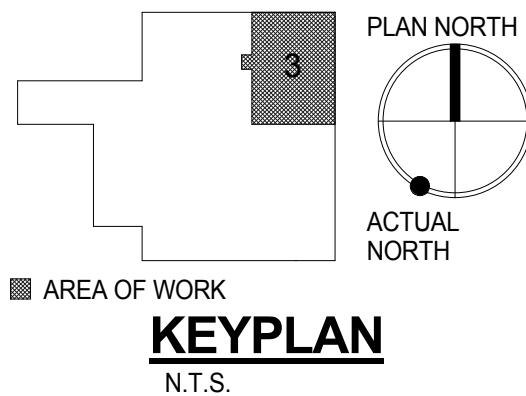
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												PF&A			Building Number 1S											
												Approved: Medical Center Director			Location HUNTINGTON, WV						Drawing Number P2-FA1.01					
												Date 10.31.2014			Checked MC						Drawn MR			Dwg. 109 of 178		
NO. DESCRIPTION DATE																										

GENERAL NOTES

1. SEE E0.01 AND E0.02 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
2. ALL DEVICES SHOWN IN AREA OF WORK TO BE DEMOLISHED, U.O.N.



1 PHASE 3 - 3RD FLOOR PLAN LIGHTING DEMOLITION PLAN - AREA A
1/4\" = 1'-0"

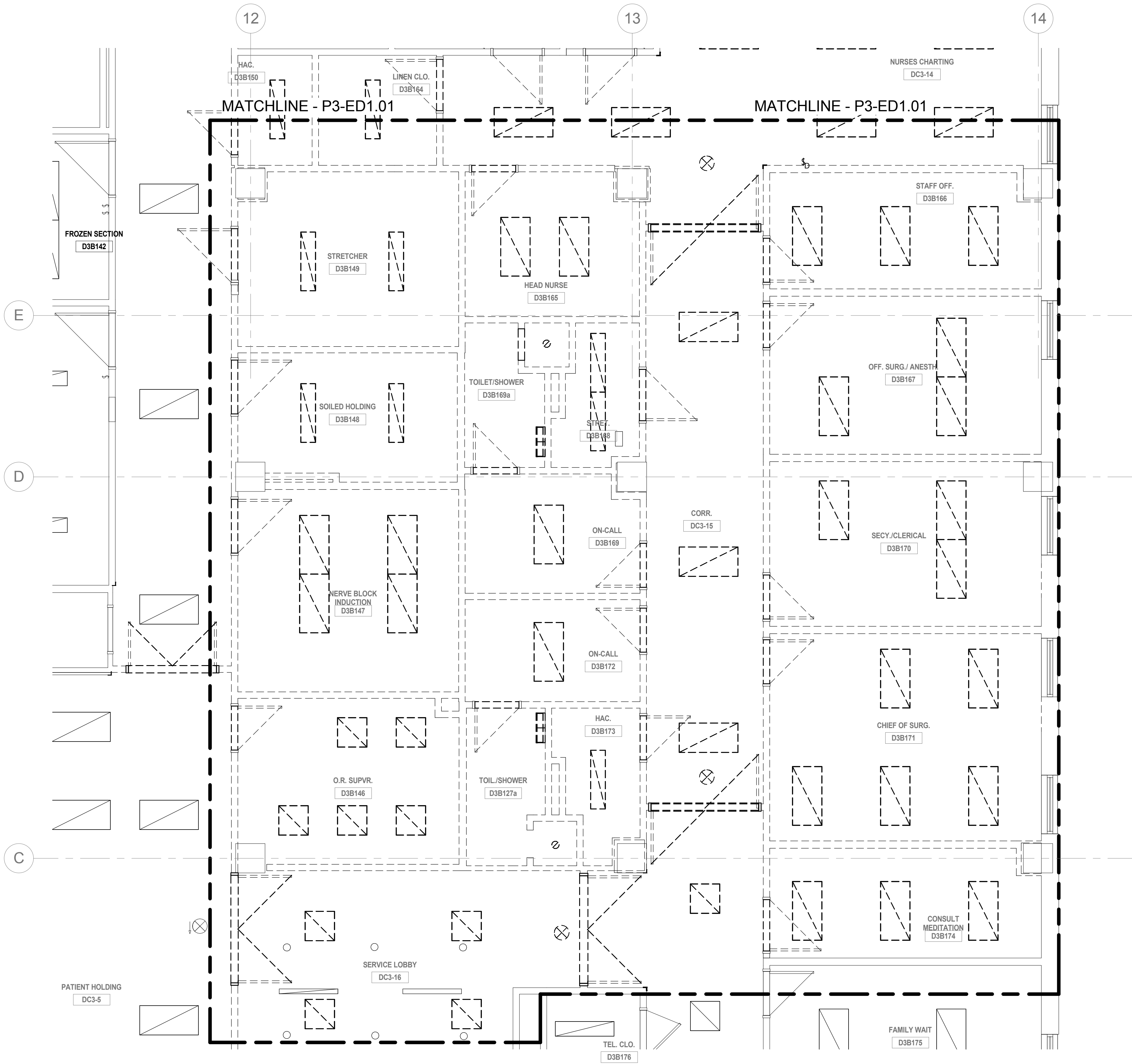


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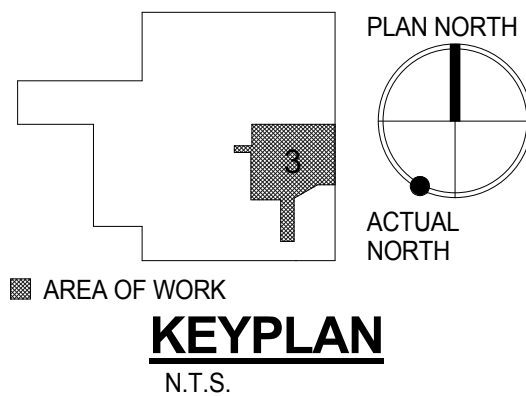
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						Approved: Medical Center Director		Location HUNTINGTON, WV		Building Number 1S		Department of Veterans Affairs	
								Date 10.31.2014		Checked MC		Drawn MR	
										Drawing Number P3-ED1.01		Dwg. 110 of 178	

GENERAL NOTES

1. SEE E0.01 AND E0.02 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
2. ALL DEVICES SHOWN IN AREA OF WORK TO BE DEMOLISHED, U.O.N.



1 PHASE 3 - 3RD FLOOR PLAN LIGHTING DEMOLITION PLAN - AREA B
1/4" = 1'-0"



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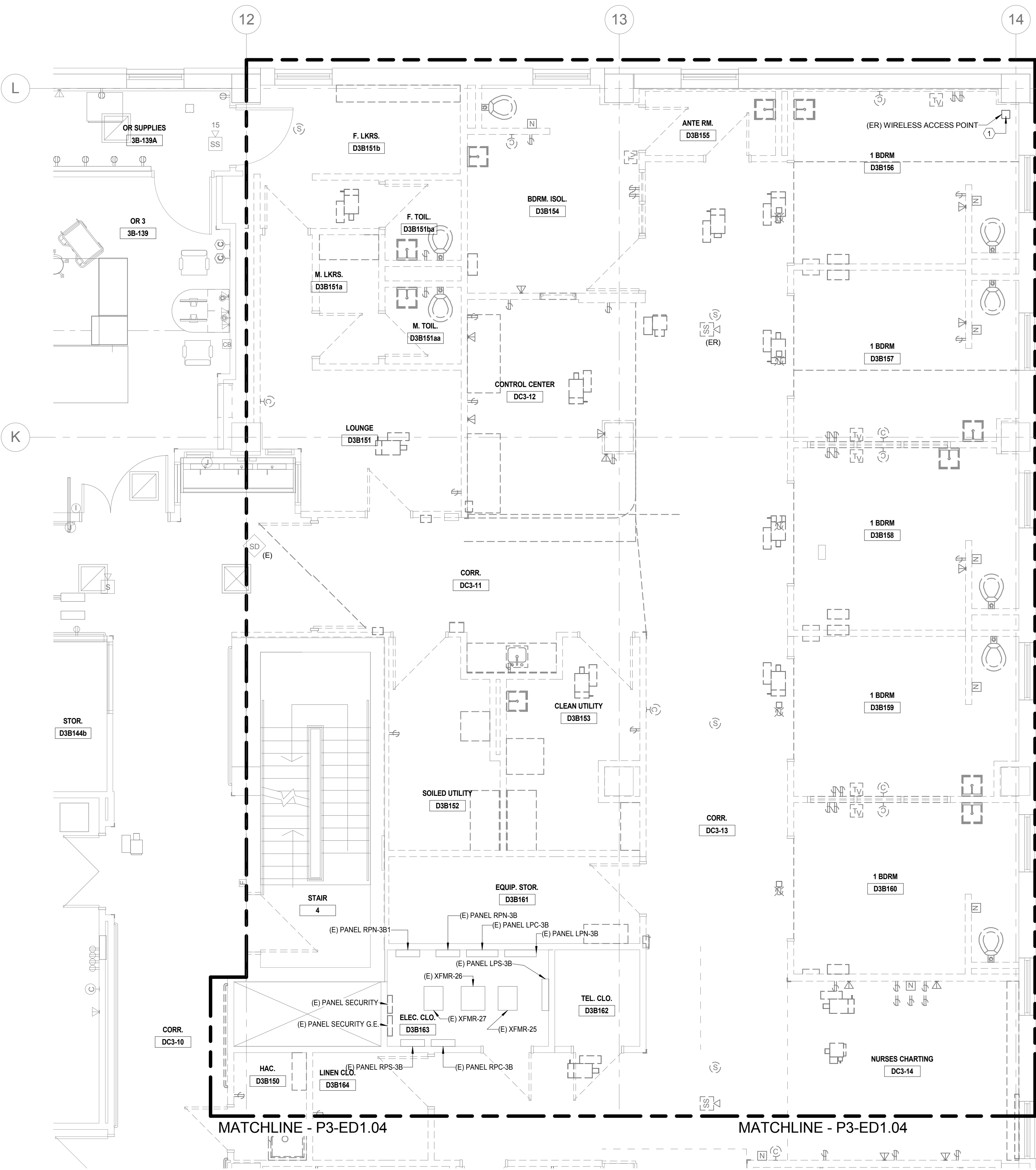
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					Approved: Medical Center Director		Location HUNTINGTON, WV		Building Number 1S			
									Drawing Number P3-ED1.02			
NO. DESCRIPTION DATE			MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER THOMAS L. CHAPMAN ENGINEER NO. 00000000000000000000 DATE 10/31/2014		PF&A PFAA DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-6637 Fax: 757-471-6635 www.pfaa-architect.com		Date 10.31.2014		Checked MC	Drawn MR	Dwg. 111 of 178	

GENERAL NOTES

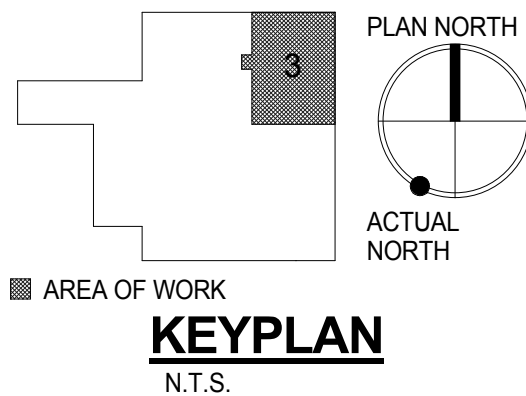
1. SEE E0.01 AND E0.02 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
2. ALL DEVICES SHOWN IN AREA OF WORK TO BE DEMOLISHED, U.O.N.

SHEET KEYNOTES






1. E.C. TO REMOVE AND STORE EXISTING WIRELESS ACCESS POINT. WIRELESS ACCESS POINT TO BE REINSTALLED IN SAME LOCATION.



PHASE 3 - 3RD FLOOR POWER AND SYSTEM DEMOLITION PLAN - AREA A
1/4" = 1'-0"



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			CONSULTANTS:			MILLER-REMICK CORPORATION PROFESSIONAL ENGINEER			ARCHITECT / ENGINEERS:			Drawing Title ELECTRICAL PHASE 3 - POWER AND SYSTEMS DEMOLITION PLAN - AREA A			Project Title RENOVATE SURGICAL SERVICE & UPGRADE OPERATING ROOMS			Project Number 581-13-101		Office of Construction and Facilities Management  Department of Veterans Affairs										
									 Miller-Remick LLC M.E.P. & Structural Engineers A Service Disabled Veteran Owned Small Business 1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034 PHONE: (856)429-4000 FAX: (856)429-5002									PF&A DESIGN ARCHITECTURE, PLANNING, INTERIORS World Trade Center 101 West Main Street, Suite 7000 Norfolk, VA 23510 Phone: 757-471-0537 Fax: 757-471-4235 www.pfa-architect.com				Approved: Medical Center Director			Location HUNTINGTON, WV			Drawing Number P3-ED1.03		
NO. DESCRIPTION DATE															Date 10.31.2014			Checked MC				Drawn MR		Dwg. 112 of 178						

1. SEE E0.01 AND E0.02 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
2. ALL DEVICES SHOWN IN AREA OF WORK TO BE DEMOLISHED, U.O.N.

1 E.C. TO REMOVE AND STORE EXISTING WIRELESS ACCESS POINT. WIRELESS ACCESS POINT TO BE REINSTALLED IN SAME LOCATION.



Office of
Construction
and Facilities
Management

**Department of
Veterans Affairs**

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